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#
# List of USB ID's
#
# Maintained by Vojtech Pavlik
# If you have any new entries, send them to the maintainer.
#
# $Id: usb.ids,v 1.112 2003/01/13 23:11:20 dbrownell Exp $
#

# Vendors, devices and interfaces. Please keep sorted.

# Syntax:
# vendor vendor_name
# device device_name <-- single tab
# interface interface_name <-- two tabs

0386 LTS
    0001 PSX for USB Converter
03e8 AOX Inc.
    0004 SE401 WebCam
    0008 101 Ethernet [klsi]
03e9 Thesys Microelectronics
03ea Data Broadcasting Corp.
03eb Atmel Corp.
    3301 4-port Hub
    3312 4-port Hub
    7603 AT76c503a D-Link DWL-120
03ec Iwatsu America Inc.
03ed Mitel Corp.
03ee Mitsumi
    0000 CD-R/RW Drive
03f0 Hewlett-Packard
    0004 DeskJet 895c
    0101 ScanJet 4100c
    0102 PhotoSmart S20
    0104 DeskJet 880c/970c
    0105 ScanJet 4200c
    0107 CD-Writer Plus
    010c Multimedia Keyboard Hub
    0111 G55xi Printer/Scanner/Copier
    011c hn210w 802.11b Wireless Ethernet
    0201 ScanJet 6200c
    0202 PhotoSmart S20
    0204 DeskJet 815c
    0205 ScanJet 3300c
    0207 CD-Writer Plus 8200e
    020c Multimedia Keyboard
    0304 DeskJet 810c/812c
    0311 OfficeJet G85xi
    0317 LaserJet 1200
    0401 ScanJet 5200c
    0404 DeskJet 830c/832c
    0405 ScanJet 3400cse
    0504 DeskJet 885c
    0505 ScanJet 2100c
    0601 ScanJet 6300c
    0604 DeskJet 840c Scanner
    0605 ScanJet 2200c
    0701 ScanJet 5300c/5370c
    0705 ScanJet 4400c
    0804 DeskJet 816c

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0901 ScanJet 2300c
 1004 DeskJet 970c/970cse
 1104 Deskjet 959C
 1105 ScanJet 5470c
 1151 750xi Printer/Scanner/Copier
 1204 DeskJet 930c
 2004 DeskJet 640c
 2205 ScanJet 3500c
 2304 DeskJet 656c
 3102 PhotoSmart P1100 Printer w/ Card Reader
 4002 PhotoSmart 720 Camera
 4102 PhotoSmart 618 Camera
 4202 PhotoSmart 812 camera
 6202 PhotoSmart 215 Camera
 6302 PhotoSmart 318/612 Camera
 efbe NEC Picty900
 bef4 NEC Picty760
 f0be NEC Picty920
 flbe NEC Picty800
 03f1 Genoa Technology
 03f2 Oak Technology, Inc.
 03f3 Adaptec, Inc.
 03f4 Diebold, Inc.
 03f5 Siemens Electromechanical
 03f8 Epson Imaging Technology Center
 03f9 KeyTronic Corp.
 03fb OPTi Inc.
 03fc Elitegroup Computer Systems
 03fd Xilinx Inc.
 03fe Farallon Communications
 0400 National Semiconductor
 1000 Mustek BearPaw 1200 Scanner
 1001 Mustek BearPaw 2400 Scanner
 0401 National Registry Inc.
 0402 ALi Corp.
 0403 Future Technology Devices
 0000 H4SMK 7 Port Hub
 8070 7 Port Hub
 8040 4 Port Hub
 8370 7 Port Hub
 8371 PS/2 Keyboard And Mouse
 8372 FT8U100AX Serial Port
 0404 NCR Corp.
 0405 inSilicon
 0406 Fujitsu-ICL Computers
 0407 Fujitsu Personal Systems, Inc.
 0408 Quanta Computer Inc.
 0409 NEC Systems
 0012 ATerm IT75DSU ISDN TA
 0014 Japanese Keyboard
 0027 MultiSync Monitor
 0058 USB2.0 Hub Controller
 55aa Hub
 55ab Hub [iMac kbd]
 efbe P!cty 900 [HP DJ]
 f0be P!cty 920 [HP DJ 812c]
 040a Kodak Co.
 0001 DVC-323
 0002 DVC-325
 0100 DC-220
 0110 DC-260

0111 DC-265
0112 DC-290
0120 DC-240
0121 DC-240 (PTP firmware)
0130 DC-280
0131 DC-5000
0132 DC-3400
0140 DC-4800
0300 EZ-200
0400 MC3
0535 EasyShare CX4230 Camera
040b Weltrend Semiconductor
040c VTech Computers Ltd.
040d VIA Technologies, Inc.
040e MCCI
040f Echo Speech Corp.
0411 Melco, Inc.
0001 LUA-TX Ethernet [pegasus]
0412 Award Software International
0413 Leadtek Research Inc.
0414 Giga-Byte Technology Co., Ltd.
0416 Winbond Electronics Corp.
0961 AVL Flash Card Reader
5518 Hub
551a PC Sync Keypad
551b PC Async Keypad
551c Sync Tenkey
551d Async Tenkey
551e Keyboard
551f Keyboard w/ Sys and Media
5521 Keyboard
6481 16-bit Scanner
0417 Symbios Logic
0418 AST Research
0419 Samsung Info. Systems America Inc.
041a Phoenix Technologies, Ltd.
041b d'TV
041d S3, Inc.
041e Creative Labs
1002 Nomad II MP3 Player
1003 Blaster GamePad Cobra
1050 GamePad Cobra
4003 VideoBlaster WebCam Go Plus [W9967CF]
4004 Nomad II MG MP3 Player
400a PC-Cam 300
400b PC-Cam 600
400c WebCam 5 [pwc]
400d WebCam PD1001
041f LCS Telegraphics
0420 Chips and Technologies
0421 Nokia Mobile Phones
0422 ADI Systems Inc.
0423 Computer Access Technology Corp.
000a NetMate Ethernet
000c NetMate2 Ethernet
000d USB Chief Analyzer
1237 Andromeda Hub
0424 Standard Microsystems Corp.
0425 Motorola Semiconductors HK, Ltd.
0426 Integrated Device Technology
0427 Motorola Electronics Taiwan Ltd.

0428 Advanced Gravis Computer Tech. Ltd.
4001 GamePad Pro
0429 Cirrus Logic
042a Ericsson Austrian, AG
042b Intel Corp.
042c Innovative Semiconductors, Inc.
042d Micronics
042e Acer, Inc.
042f Molex, Inc.
0430 Sun Microsystems
0005 Type 6 Keyboard
0100 3-button Mouse
0431 Itac Systems, Inc.
0432 Unisys Corp.
0433 Alps Electric Inc.
1101 IBM Game Controller
0434 Samsung Info. Systems America Inc.
0435 Hyundai Electronics America
0436 Taugagreining HF
0437 Framatome Connectors USA
0438 Advanced Micro Devices
0439 Voice Technologies Group
043d Lexmark International Inc.
0002 Optra E310 Printer
0009 Optra S2450 Printer
000c Optra E312 Printer
0017 Z32 printer
0018 Z52 Printer
0020 Z51 Printer
003d X83 Scan/Print/Copy
043e LG Electronics USA Inc.
42bd Flatron 795FT Plus Monitor
4a4d Flatron 915FT Plus Monitor
7001 MF-PD100 Soul Digital MP3 Player
8484 LPC-U30 Webcam II
8585 LPC-UC35 Webcam
043f RadiSys Corp.
0440 Eizo Nanao Corp.
0441 Winbond Systems Lab.
1456 Hub
0442 Ericsson Inc.
0443 Gateway 2000
0445 Lucent Technologies
0446 NMB Technologies, Inc.
0447 Momentum Microsystems
044a Shamrock Tech. Co., Ltd.
044b WSI
044c CCL/ITRI
044d Siemens Nixdorf
044e Alps Electric Co.
2002 MD-5500 Printer
3001 UGTZ4 Bluetooth
044f ThrustMaster, Inc.
0400 HOTAS Cougar
a0a3 Fusion Digital GamePad
b203 360 Modena Pro Wheel
b300 Firestorm Dual Power
0450 DFI Inc.
0451 Texas Instruments
1428 Hub
1446 TUSB2040/2070 Hub

2036 TUSB2036 Hub
 2046 TUSB2046 Hub
 2077 TUSB2077 Hub
 e001 GraphLink
 0452 Mitsubishi Electronics America, Inc.
 0453 CMD Technology
 0454 Vobis Microcomputer AG
 0455 Telematics International, Inc.
 0456 Analog Devices, Inc.
 0457 Silicon Integrated Systems Corp.
 0458 KYE Systems Corp. (Mouse Systems)
 0001 Mouse
 0002 Genius NetMouse Pro
 0003 Genius NetScroll+
 0100 EasyPen Tablet
 0101 CueCat
 1003 Genius VideoCam
 1004 Flight2000 F-23 Joystick
 2001 ColorPage-Vivid Pro Scanner
 2007 ColorPage-HR6 V2 Scanner
 2008 ColorPage-HR6 V2 Scanner
 2009 ColorPage-HR6A Scanner
 2013 ColorPage-HR7 Scanner
 2015 ColorPage-HR7LE Scanner
 2016 ColorPage-HR6X Scanner
 0459 Adobe Systems, Inc.
 045a Diamond Multimedia Systems
 0b4a SupraMax 2890 56K Modem [Lucent Atlas]
 0b68 SupraMax 56K Modem
 045b Hitachi, Ltd.
 045d Nortel Networks
 045e Microsoft Corp.
 0008 SideWinder Precision Pro
 0009 IntelliMouse
 000b Natural Keyboard Elite
 0014 Digital Sound System 80
 001a SideWinder Precision Racing Wheel
 001b SideWinder Force Feedback 2 Joystick
 001d Natural Keyboard Pro
 001e IntelliMouse Explorer
 0024 Trackball Explorer
 0025 IntelliEye Mouse
 0026 SideWinder GamePad Pro
 0027 SideWinder PnP GamePad
 0028 SideWinder Dual Strike
 0029 IntelliMouse Optical
 002b Internet Keyboard Pro
 0034 SideWinder Force Feedback Wheel
 0033 Sidewinder Strategic Commander
 0038 SideWinder Precision 2
 0039 IntelliMouse Optical
 003b SideWinder Game Voice
 003c SideWinder Joystick
 0040 Wheel Mouse Optical
 0059 Wireless IntelliMouse Explorer
 0284 Xbox DVD Playback Kit
 0460 Ace Cad Enterprise Co., Ltd.
 0461 Primax Electronics
 0300 G2-300 Scanner
 0301 G2E-300 Scanner
 0302 G2-300 #2 Scanner

0303 G2E-300 #2 Scanner
 0340 Colorado 9600 Scanner
 0341 Colorado 600u Scanner
 0346 Memorex Maxx 6136u Scanner
 0347 Visioneer 4400 Scanner
 0360 Colorado 19200 Scanner
 0361 Colorado 1200u Scanner
 0371 Visioneer Onetouch 8920 Scanner
 0380 G2-600 Scanner
 0381 ReadyScan 636i Scanner
 0382 G2-600 #2 Scanner
 0383 G2E-600 Scanner
 0813 IBM UltraPort Camera
 0815 Micro Innovations WebCam
 081a Fujifilm IX-30 Camera
 4d01 Comfort Keyboard
 4d02 Mouse-in-a-Box
 4d03 Kensington Mouse-in-a-box
 4d04 Mouse
 0463 MGE UPS Systems
 0001 UPS
 ffff UPS
 0464 AMP Incorporated
 0467 AT&T Paradyne
 0468 Wieson Technologies Co., Ltd.
 046a Cherry Mikroschalter GmbH
 0001 My3000 Keyboard
 0003 My3000 Hub
 046b American Megatrends
 046c Toshiba Corp., Digital Media Equipment
 046d Logitech Inc.
 0203 M2452 Keyboard
 0301 M4848 Mouse
 0401 HP PageScan
 0402 NEC PageScan
 040F Logitech/Storm PageScan
 0801 QuickCam Home
 0810 QuickCam Pro
 0840 QuickCam Express
 0850 QuickCam Web
 0870 QuickCam Express
 08b0 QuickCam 3000 Pro [pwc]
 0900 ClickSmart 310
 0901 ClickSmart 510
 0950 Pocket Camera
 c000 N43 [Pilot Mouse]
 c001 N48/M-BB48 [FirstMouse Plus]
 c002 M-BA47 [MouseMan Plus]
 c004 WingMan Gaming Mouse
 c00b MouseMan Wheel
 c00c Optical Wheel Mouse
 c00e Optical Mouse
 c012 Optical Mouse
 c030 iFeel Mouse
 c032 MouseMan iFeel
 c202 WingMan Formula
 c207 WingMan Extreme Digital 3D
 c208 WingMan Gamepad Extreme
 c209 WingMan Gamepad
 c20a WingMan RumblePad
 c20c WingMan Precision

- c281 WingMan Force
- c283 WingMan Force 3D
- c285 WingMan Strike Force 3D
- c291 WingMan Formula Force
- c295 Momo Force Steering Wheel
- c2a0 Wingman Force Feedback Mouse
- c308 Internet Navigator Keyboard
- c401 TrackMan Marble Wheel
- c501 Cordless Mouse Receiver
- c503 Cordless Mouse+Keyboard Receiver
- c504 Cordless Mouse+Keyboard Receiver
- d001 QuickCam Pro
- 046e Behavior Tech. Computer
 - 6782 BTC 7932 mouse+keyboard
- 046f Crystal Semiconductor
- 0471 Philips
 - 0101 DSS350 Digital Speaker System
 - 0104 DSS330 Digital Speaker System [uda1321]
 - 0201 Hub
 - 0222 Creative Nomad Jukebox
 - 0302 PCA645VC WebCam [pwc]
 - 0303 PCA646VC WebCam [pwc]
 - 0304 Askey VC010 WebCam [pwc]
 - 0307 PCVC675K WebCam [pwc]
 - 0308 PCVC680K WebCam [pwc]
 - 030C PCVC690K WebCam [pwc]
 - 0310 PCVC730K WebCam [pwc]
 - 0311 PCVC740K ToUcam Pro [pwc]
 - 0312 PCVC750K WebCam [pwc]
 - 0471 Digital Speaker System
 - 0601 OVU1020 IR Dongle (Kbd+Mouse)
 - 0701 150P1 TFT Display
 - 1801 Diva MP3 player
- 0472 Chicony
 - 0065 PFU-65 Keyboard
- 0473 Sanyo Information Business Co., Ltd.
- 0474 Sanyo Electric Co. Ltd.
- 0475 Relisys/Teco Information System
- 0476 AESP
- 0477 Seagate Technology
- 0478 Connectix Corp.
 - 0001 QuickCam
 - 0002 QuickClip
- 0479 Advanced Peripheral Laboratories
- 047a USAR Systems
- 047b Silitek Corp.
 - 0002 Keyboard and Mouse
 - 0101 BlueTooth Keyboard and Mouse
 - 1002 HP ScanJet 4300c Parallel Port
- 047c Dell Computer Corp.
- 047d Kensington
 - 1003 Orbit TrackBall
 - 1005 TurboBall
 - 5002 VideoCam CABO II
 - 5003 VideoCam
 - 4006 Gravis Eliminator AfterShock
 - 4005 Gravis Eliminator GamePad Pro
 - 4008 Gravis Destroyer TiltPad
- 047e Agere Systems, Inc. (Lucent)
 - 1001 USS720 Parallel Port
 - f101 Atlas Modem

047f Plantronics, Inc.
0480 Toshiba America Info. Systems, Inc.
0481 Zenith Data Systems
0482 Kyocera Electronics, Inc.
0483 SGS Thomson Microelectronics
 7554 56k SoftModem
0484 Specialix
0485 Nokia Monitors
0486 ASUS Computers Inc.
0487 Stewart Connector
0488 Cirque Corp.
0489 Foxconn / Hon Hai
 0502 SmartMedia Card Reader Firmware Loader
 0503 SmartMedia Card Reader
048a S-MOS Systems, Inc.
048c Alps Electric Ireland Ltd.
048d Integrated Technology Express
048f Eicon Tech.
0490 United Microelectronics Corp.
0491 Capetronic
0492 Samsung SemiConductor, Inc.
0493 MAG Technology Co., Ltd.
0495 ESS Technology, Inc.
0496 Micron Electronics
0497 Smile International
0498 Capetronic (Kaohsiung) Corp.
0499 Yamaha Corp.
 6001 CRW2200UX Lightspeed 2 External CD-RW Drive
049a Gandalf Technologies Ltd.
049b Curtis Computer Products
049c Acer Advanced Labs, Inc.
 0002 Keyboard (???)
049d VLSI Technology
049f Compaq Computer Corp.
 0003 iPAQ PocketPC
 000e Internet Keyboard
 0018 PA-1/PA-2 MP3 Player
 0033 Evo N600c Builtin Wireless Ethernet [orinoco]
 505a SA-11x0 based Linux Device, or Itsy (experimental)
 8511 iPAQ Networking 10/100 Ethernet [pegasus2]
04a0 Digital Equipment Corp.
04a1 SystemSoft Corp.
04a2 FirePower Systems
04a3 Trident Microsystems Inc.
04a4 Hitachi, Ltd.
04a5 Acer Peripherals Inc.
 0001 Keyboard
 12a6 AcerScan C310U
 1a20 Prisa 310U
 1a2a Prisa 620U
 2022 Prisa 320U/340U
 2040 Prisa 620UT
 2060 Prisa 620U+/640U
 207e Prisa 640BU
 20b0 S2W 3300U/4300U
 20be Prisa 640BT
 20c0 Prisa 1240UT
 20de S2W 4300U+
 20fe SW2 5300U
 3003 Benq WebCam
 9213 Kbd Hub

04a6 Nokia Display Products
 04a7 Visioneer
 0211 OneTouch 7600 Scanner
 0221 OneTouch 5300 Scanner
 0224 Microtek Scanport 3000
 0231 6100 Scanner
 0311 6200 EPP/USB Scanner
 0321 OneTouch 8100 EPP/USB Scanner
 0331 OneTouch 8600 EPP/USB Scanner
 04a8 Multivideo Labs, Inc.
 04a9 Canon Inc.
 1051 BJC-3000 Color Printer
 1056 BJC-2110 Color Printer
 105b S600 Printer
 105d S450 Printer
 1062 S500 Printer
 1064 S300 Printer
 106b BJ-S520 Printer
 1074 BJ-S330 Printer
 2204 CanoScan FB630U
 2205 CanoScan FB1210U
 2206 CanoScan N650U
 2207 CanoScan 1220U
 2208 CanoScan D660U
 220d CanoScan N670U
 220e CanoScan N1240U/LiDE 30
 3041 PowerShot S10
 3042 CanoScan FS4000US Film Scanner
 3043 PowerShot S20
 3045 PowerShot S100
 3047 Digital IXUS
 3048 PowerShot G1
 3049 PowerShot Pro90 IS
 304b IXY Digital 300
 304e PowerShot A20
 304f PowerShot A10
 3056 PowerShot S40
 3058 PowerShot A40
 305b ZR45MC Digital Camcorder
 3062 PowerShot A200
 306c PowerShot S45
 04aa DaeWoo Telecom, Ltd.
 04ab Chromatic Research
 04ac Micro Audiometrics Corp.
 04ad Dooin Electronics
 04af Winnov L.P.
 04b0 Nikon Corp.
 0102 Coolpix 990
 0103 Coolpix 880
 0104 Coolpix 995
 0106 Coolpix 775
 0107 Coolpix 5000
 010a Coolpix 4500
 0301 Coolpix 2000 (storage)
 0302 Coolpix 2000 (ptp)
 04b1 Pan International
 04b3 IBM Corp.
 3004 Media Access Pro Keyboard
 3100 NetVista Mouse
 4427 Portable CD ROM
 4525 Double sided CRT

4550 NVRAM (128 KB)
 4554 Cash Drawer
 4580 Hub w/ NVRAM
 4581 4800-2xx Hub w/ Cash Drawer
 4604 Keyboard w/ Card Reader
 4671 4820 LCD w/ MSR/KB
 04b4 Cypress Semiconductor
 0000 Dacal DC-101 CD Library
 0001 Mouse
 0002 CY7C63x0x Thermometer
 1002 CY7C63001 R100 FM Radio
 8613 CY7C68013 EZ-USB FX2 USB 2.0 Development Kit
 d5d5 CY7C63x0x Zoltrix Z-Boxer GamePad
 f000 CY30700 Licorice evaluation board
 04b5 ROHM LSI Systems, Inc.
 04b6 Hint Corp.
 04b7 Compal Electronics, Inc.
 04b8 Seiko Epson Corp.
 0001 Stylus Color 740 / Photo 750
 0002 ISD Smart Cable for Mac
 0003 ISD Smart Cable
 0005 Stylus Printer
 0101 Perfection 636
 0103 Perfection 610
 0104 Perfection 1200
 0106 Stylus Scan 2500
 0107 Expression 1600U
 010a Perfection 1640SU
 010b Perfection 1240
 010c Perfection 640
 010f Perfection 1250
 0110 Perfection 1650
 0114 Perfection 660
 011d Perfection 1260 Photo
 0202 Receipt Printer M129C
 0601 Stylus Photo 875DC Card Reader
 0602 Stylus Photo 895 Card Reader
 04b9 Rainbow Technologies, Inc.
 1000 iKey 1000 Token
 1001 iKey 1200 Token
 1200 iKey 2000 Token
 1202 iKey 2032 Token
 1300 iKey 3000 Token
 04ba Toucan Systems Ltd.
 04bb I-O Data Device, Inc.
 0904 ET/TX Ethernet [pegasus]
 0913 ET/TX-S Ethernet [pegasus2]
 04bd Toshiba Electronics Taiwan Corp.
 04be Telia Research AB
 04bf TDK Corp.
 0100 MediaReader CF
 04c1 U.S. Robotics (3Com)
 0082 OfficeConnect Analog Modem
 008f Pro ISDN TA
 009d HomeConnect WebCam [vicam]
 3021 56k Voice FaxModem Pro
 04c2 Methode Electronics Far East PTE Ltd.
 04c3 Maxi Switch, Inc.
 04c4 Lockheed Martin Energy Research
 04c5 Fujitsu Ltd.
 04c6 Toshiba America Electronic Components

04c7 Micro Macro Technologies
04c8 Konica Corp.
 0720 Digital Color Camera
 0721 e-miniD Camera
 0723 KD-200Z Camera
04ca Lite-On Technology Corp.
04cb Fuji Photo Film Co., Ltd.
 0100 FinePix 1300 / 1400 / 4700 Zoom digital camera
 0103 FinePix NX-700 printer
 0104 FinePix A101 (PC-Cam Mode)
 0108 FinePix F601 Zoom (Disk mode)
 0109 FinePix F601 Zoom (PC-Cam mode)
 010a FinePix S602 Zoom (Disk mode)
 0114 FinePix F401 Zoom (Disk mode)
 0115 FinePix F401 Zoom (PC-Cam mode)
 011a FinePix S304/3800
04cc Philips Semiconductors
 1122 Hub
 1521 USB 2.0 Hub
 8116 Camera
04cd Tatung Co. Of America
04ce ScanLogic Corp.
 0002 SL11R-IDE IDE Bridge
04cf Myson Technology Inc.
04d0 Digi International
04d1 ITT Canon
04d2 Altec Lansing Technologies
 0311 ADA-310 Speakers
 ff05 ADA-305 Speakers
04d3 VidUS, Inc.
04d4 LSI Logic Corp.
04d5 Forte Technologies, Inc.
04d6 Mentor Graphics
04d7 Oki Semiconductor
04d8 Microchip Technology Inc.
04d9 Holtek Semiconductor, Inc.
04da Panasonic (Matsushita)
04db Hypertec Pty Ltd.
04dc Huan Hsin Co.
04dd Sharp Corp.
 8004 Zaurus SL-5000D/SL-5500 PDA
 8006 Zaurus SL-B500 PDA
04de MindShare, Inc.
04df Interlink Electronics
04e1 Iiyama North America Inc.
 0201 Monitor Hub
04e2 Exar Corp.
04e3 Zilog
04e4 ACC Microelectronics
04e5 Promise Technology
04e6 Shuttle Technology Inc.
 0001 E-USB ATA Bridge
 0002 eUSCSI SCSI Bridge
 0003 eUSB SmartMedia Card Reader
 0005 eUSB SmartMedia/CompactFlash Card Reader
 0006 eUSB SmartMedia Card Reader
 0007 Hifd
 0101 eUSB ATA Bridge
 0325 eUSB ORCA Quad Reader
 1010 USBAT-2 CompactFlash Card Reader
04e7 Elo TouchSystems

0001 TouchScreen
 04e8 Samsung Electronics Co., Ltd.
 1003 MP3 Player and Recorder
 5a03 Yepp MP3 Player
 04e9 PC-Tel Inc.
 04ea Brooktree Corp.
 04eb Northstar Systems, Inc.
 04ec Tokyo Electron Limited
 04ed Annabooks
 04ef Pacific Electronic International, Inc.
 04f0 Daewoo Electronics Co., Ltd.
 04f1 Victor Company of Japan (JVC)
 0001 GC-QX3 Digital Still Camera
 0004 GR-DVL815U Digital Video Camera
 04f2 Chicony Electronics Co., Ltd.
 0001 KU-8933 Keyboard
 0002 NT68P81 Keyboard
 0112 KU-8933 Keyboard with PS/2 Mouse port
 04f3 Elan Microelectronics Corporation
 04f4 Harting Elektronik Inc.
 04f5 Fujitsu-ICL Systems, Inc.
 04f6 Norand Corp.
 04f7 Newnex Technology Corp.
 04f8 FuturePlus Systems
 04f9 Brother Industries, Ltd.
 0002 HL-1050 Laser Printer
 0007 HL-1250 Laser Printer
 0008 HL-1270 Laser Printer
 04fa Dallas Semiconductor
 2490 DS1490F 2-in-1 Fob, 1-Wire adapter
 4201 DS4201 Audio DAC
 04fb Biostar Microtech Int'l Corp.
 04fc Sunplus Technology Co.
 504a SPCA504a Digital Camera
 04fd Soliton Systems, K.K.
 04fe PFU Limited
 04ff E-CMOS Corp.
 0500 Siam United Hi-Tech
 0501 DDK Electronics, Inc.
 0502 Acer, Inc.
 d001 Divio NW801/DVC-V6+ Digital Camera
 0503 Hitachi America Ltd.
 0504 Hayes Microcomputer Products
 0506 3Com Corp.
 03e8 3C19250 Ethernet [klsi]
 4601 3C460B USB 10/100 Ethernet Adaptor
 f002 3CP4218 ADSL Modem (pre-init)
 f003 3CP4218 ADSL Modem
 f100 3CP4218 ADSL Modem (pre-init)
 0507 Hosiden Corp.
 0508 Clarion Co., Ltd.
 0509 Aztech Systems Ltd.
 050a Cinch Connectors
 050b Cable System International
 050c InnoMedia, Inc.
 050d Belkin Components
 0103 F5U103 Serial Adapter [etek]
 0109 F5U109 PDA Adapter
 0115 SCSI Adapter
 0121 F5D5050 100Mbps Ethernet
 0805 Nostromo N50 GamePad

0208 USBView II Video Adapter [nt1004]
1203 F5U120-PC Serial Port
050e Neon Technology, Inc.
050f KC Technology Inc.
0003 KC82C160S Hub
0180 KC-180 IrDA Dongle
0510 Sejin Electron Inc.
0511 N'Able (DataBook) Technologies, Inc.
0512 Hualon Microelectronics Corp.
0513 digital-X, Inc.
0514 FCI/Berg Electronics Group
0515 ACTC
0516 Longwell Electronics
0517 Butterfly Communications
0518 EzKEY Corp.
0519 Star Micronics Co., Ltd.
051a WYSE Technology
051b Silicon Graphics
051c Shuttle Inc.
051d American Power Conversion
0002 Back-UPS Pro 500
051e Scientific Atlanta
051f IO Systems (Elite Electronics), Inc.
0520 Taiwan Semiconductor Manufacturing Co.
0521 Airborn Connectors
0522 Advanced Connectek USA Inc.
0523 ATEN GmbH
0524 Sola Electronics
0525 Netchip Technology Inc.
1080 NET1080 USB-USB Bridge
0526 Temic MHS S.A.
0527 ALTRA
0528 ATI Technologies, Inc.
7561 TV Wonder
0529 Aladdin Knowledge Systems
0001 HASP v0.06
030b eToken R1 v3.1.3.x
0313 eToken R1 v3.2.3.x
031b eToken R1 v3.3.3.x
0323 eToken R1 v3.4.3.x
0412 eToken R2 v2.2.4.x
041a eToken R2 v2.2.4.x
0422 eToken R2 v2.4.4.x
042a eToken R2 v2.5.4.x
050c eToken Pro v4.1.5.x
0514 eToken Pro v4.2.5.4
052a Crescent Heart Software
052b Tekom Technologies, Inc.
052c Canon Information System
052d Avid Electronics Corp.
052e Standard Microsystems Corp.
052f Unicore Software, Inc.
0530 American Microsystems Inc.
0531 Wacom Technology Corp.
0532 Systech Corp.
0533 Alcatel Mobile Phones
0534 Motorola
0535 LIH TZU Electric Co., Ltd.
0536 Welch Allyn Inc.
0537 Inventec Corp.
0538 Santa Cruz Operation

0539 Shyh Shiun Terminals Co. Ltd.
 053a Preh Werke GmbH & Co. KG
 053b Global Village Communication
 053c Institut of Microelectronic & Mechatronic Systems
 053d Silicon Architect
 053e Mobility Electronics
 053f Synopsys, Inc.
 0540 UniAccess AB
 0101 Panache Surf ISDN TA
 0541 Sirf Technology, Inc.
 0543 ViewSonic Corp.
 00fe G773 Monitor Hub
 00ff P815 Monitor Hub
 4153 ViewSonic G773 Control (?)
 0544 Cristie Electronics Ltd.
 0545 Xirlink, Inc.
 8002 IBM NetCamera
 800c Veo StingRay
 8080 IBM C-It WebCam
 0546 Polaroid Corp.
 0547 Anchor Chips Inc.
 2131 AN2131 EZUSB Microcontroller
 2235 AN2235 EZUSB-FX Microcontroller
 2720 AN2720 USB-USB Bridge
 2727 Xircom PGUNET USB-USB Bridge
 2810 Cypress USB ATAPI Bridge
 9999 AN2131 uninitialized (?)
 0548 Tyan Computer Corp.
 0549 Pixera Corp.
 054a Fujitsu Microelectronics, Inc.
 054b New Media Corp.
 054c Sony Corp.
 0010 DSC-S30/S70/S75/F505V/F505/FD92 Cybershot/Mavica Digital
 Camera
 0023 CD Writer
 0024 Mavica CD-1000 Camera
 0025 NW-MS7 Walkman MemoryStick Reader
 002d MSAC-US1 MemoryStick Reader
 002e Sony HandyCam MemoryStick Reader
 0032 MemoryStick MSC-U01 Reader
 0038 Clie PEG-S300/D PalmOS PDA
 0058 Clie PEG-N7x0C PalmOS PDA Mass Storage
 0066 Clie PEG-N7x0C PalmOS PDA Serial
 0069 Memorystick MSC-U03 Reader
 0099 Clie NR70 PDA Mass Storage
 009a Clie NR70 PDA Serial
 054d Try Corp.
 054e Proside Corp.
 054f WYSE Technology Taiwan
 0550 Fuji Xerox Co., Ltd.
 0551 CompuTrend Systems, Inc.
 0552 Philips Monitors
 0553 VLSI Vision Ltd.
 0002 CPiA WebCam
 0202 Aiptek PenCam 1
 0554 Dictaphone Corp.
 0555 ANAM S&T Co., Ltd.
 0556 Asahi Kasei Microsystems Co., Ltd.
 0557 ATEN International Co. Ltd.
 2001 UC-1284 Printer Port
 2002 10Mbps Ethernet [klsi]

2004 UC-100KM PS/2 Mouse and Keyboard adapter
 2006 UC-1284B Printer Port
 2007 UC-110T 100Mbps Ethernet [pegasus]
 2008 UC-232A Serial Port [pl2303]
 2202 CS124U Miniview II KVM Switch
 2600 IDE Bridge
 4000 DSB-650 10Mbps Ethernet [klsi]

0558 Truevision, Inc.
 0559 Cadence Design Systems, Inc.
 055a Kenwood USA
 055b KnowledgeTek, Inc.
 055c Proton Electronic Ind.
 055d Samsung Electro-Mechanics Co.
 9000 AnyCam [pwc]
 9001 MPC-C30 AnyCam Premium for Notebooks [pwc]

055e CTX Opto-Electronics Corp.
 055f Mustek Systems Inc.
 0001 ScanExpress 1200 CU
 0002 ScanExpress 600 CU
 0003 ScanExpress 1200 USB
 0006 ScanExpress 1200 UB
 0008 ScanExpress 1200 CU Plus
 0218 BearPaw 2400 TA
 a800 MDC 800 Camera

0560 Interface Co., Ltd.
 0561 Oasis Design, Inc.
 0562 Telex Communications Inc.
 0001 Enhanced Microphone

0563 Immersion Corp.
 0564 Chinon Industries, Inc.
 0565 Peracom Networks, Inc.
 0001 Serial Port [etek]
 0002 Enet Ethernet [klsi]
 0003 @Home Networks Ethernet [klsi]
 0005 Enet2 Ethernet [klsi]

0567 Xyratex Int'l Ltd.
 0568 Quartz Ingenierie
 0569 SegaSoft

056a Wacom Co., Ltd.
 0000 PenPartner
 0010 Graphire
 0011 Graphire 2
 0020 Intuos 4x5
 0021 Intuos 6x8
 0022 Intuos 9x12
 0023 Intuos 12x12
 0024 Intuos 12x18
 0031 PL500
 0043 Intuos 2

056b Decicon Incorporated
 056c eTEK Labs
 8007 Kwik232 Serial Port
 8101 KwikLink USB-USB Bridge

056d EIZO Corp.
 0000 Hub
 0001 Monitor

056e Elecom Co., Ltd.
 0002 29UO Mouse
 4002 Laned 100Mbps Ethernet LD-USB/TX [pegasus]

056f Korea Data Systems Co., Ltd.
 0570 Epson America

0571 Interex, Inc.
0572 Conexant Systems (Rockwell), Inc.
 0001 Ezcam II WebCam
 0002 Ezcam II WebCam
 1232 V.90 modem
0573 Nagatech Ltd.
 0003 USBGear USBG-V1
 2000 X10 va10a Wireless Camera
 4100 USB-TV FM (NTSC)
 4d00 Hauppauge WINTV-USB USA
 4d01 Hauppauge WINTV-USB
 4d02 Hauppauge WINTV-USB UK
 4d03 Hauppauge WINTV-USB France
 4d10 Hauppauge WINTV-USB with FM USA radio
 4d11 Hauppauge WINTV-USB (PAL) with FM radio
 4d12 Hauppauge WINTV-USB UK with FM Radio
 4d20 Hauppauge WINTV-USB II (PAL) with FM radio
 4d21 Hauppauge WINTV-USB II (PAL)
 4d22 Hauppauge WINTV-USB II (PAL) Model 566
 4d23 Hauppauge WINTV-USB France 4D23
 4d30 Hauppauge WINTV-USB with FM USA radio Model 602
 4d31 Hauppauge WINTV-USB III (PAL) with FM radio Model 568
0574 City University of Hong Kong
0575 Philips Creative Display Solutions
0576 BAFO/Quality Computer Accessories
0577 ELSA
0578 Intrinsix Corp.
0579 GVC Corp.
057a Samsung Electronics America
057b Y-E Data, Inc.
 0000 FlashBuster-U Floppy
057c AVM GmbH
 2800 ISDN-Connector TA
057d Shark Multimedia Inc.
057e Nintendo Co., Ltd.
057f QuickShot Limited
0580 Denron Inc.
0581 Racal Data Group
0582 Roland Corp.
 0002 MPU64 Midi Interface
 0003 Sound Canvas SC-8850
 0005 Edirol UM-2 MIDI Adapter
 0011 Edirol UA-5 Sound Capture
0583 Padix (Rockfire) Co. Ltd.
 2030 RM-203 USB Nest [mode 1]
 2031 RM-203 USB Nest [mode 2]
 2032 RM-203 USB Nest [mode 3]
 2033 RM-203 USB Nest [mode 4]
 3050 QF-305u Gamepad
 7070 QF-707u Joystick [Bazooka]
0584 RATOC System Inc.
0585 FlashPoint Technology, Inc.
0586 ZyXEL Communications Corp.
 1000 Omni NET Modem / ISDN TA
0587 America Kotobuki Electronics Ind.
0588 Sapien Design
0589 Victron
058a Nohau Corp.
058b Infineon Technologies
058c In Focus Systems
058d Micrel Semiconductor

058e Tripath Technology Inc.
058f Alcor Micro, Inc.
 2802 Monterey Keyboard
 9213 MacAlly Kbd Hub
 9215 AU9814 Hub
 9254 Hub
 9410 MicroConnectors/StrongMan Keyboard
 9472 Monterey/NEC Kbd Hub
0590 Omron Corp.
 0004 Cable Modem
0591 Questra Consulting
0592 Powerware Corp.
0593 Incite
0594 Princeton Graphic Systems
0595 Zoran Microelectronics Ltd.
0596 MicroTouch Systems Inc.
 0001 Touchscreen
0597 Trisignal Communications
0598 Niigata Canotec Co., Inc.
0599 Brilliance Semiconductor Inc.
059a Spectrum Signal Processing Inc.
059b Iomega Corp.
 0001 Zip 100 (Type 1)
 000b Zip 100 (Type 2)
 0030 Zip 250 (Ver 1)
 0031 Zip 100 (Type 3)
 0032 Zip 250 (Ver 2)
 0040 SCSI Bridge
 0050 Zip CD 650 Writer
 006d HipZip MP3 Player
059c A-Trend Technology Co., Ltd.
059d Advanced Input Devices
059e Intelligent Instrumentation
059f LaCie
 a601 HardDrive
05a0 Vetronix Corp.
05a1 USC Corp.
05a2 Fuji Film Microdevices Co. Ltd.
05a3 ARC International
05a4 Ortek Technology, Inc.
 9731 MCK-600W Keyboard
05a5 Sampo Technology Corp.
05a6 Cisco Systems
05a7 Bose Corp.
05a8 Spacetec IMC Corp.
05a9 OmniVision Technologies, Inc.
 0511 OV511 WebCam
 0518 OV518 WebCam
 a511 OV511+ WebCam
05aa Utilux South China Ltd.
05ab In-System Design
 0002 Parallel Port
 0031 ATA Bridge
 0060 USB 2.0 ATA Bridge
 0200 USS725 ATA Bridge
 0202 ATA Bridge
 081a ATA Bridge
05ac Apple Computer
 0201 iMac Keyboard [ALPS M2452]
 0202 Apple Keyboard [ALPS]
 0206 Apple Extended Keyboard [Mitsumi]

0301 iMac Mouse [Mitsumi/Logitech]
 0302 Apple Optical Mouse [Fujitsu]
 1001 Apple Keyboard Hub [ALPS]
 1002 Apple Extended Keyboard Hub [Mitsumi]

05ad Y.C. Cable U.S.A., Inc.
 05ae Synopsys, Inc.
 05af Jing-Mold Enterprise Co., Ltd.
 05b0 Fountain Technologies, Inc.
 05b1 First International Computer, Inc.
 05b4 LG Semicon Co., Ltd.
 05b5 Dialogic Corp
 05b6 Proxima Corp.
 05b7 Medianix Semiconductor, Inc.
 05b8 Agiler, Inc.
 3002 Scroll Mouse

05b9 Philips Research Laboratories
 05ba DigitalPersona, Inc.
 05bd RAFI GmbH & Co. KG
 05be Raychem Corp.
 05bf S & S Research
 05c0 Keil Software
 05c1 Kawasaki Microelectronics, Inc.
 05c2 Media Phonics (Suisse) S.A.
 05c5 Digi International Inc.
 05c6 Qualcomm, Inc.
 3100 CDMA Wireless Modem/Phone
 3196 CDMA Wireless Modem
 3197 CDMA Wireless Modem/Phone

05c7 Qtronix Corp
 1001 Lynx Mouse
 2011 Scorpius Keyboard

05c8 Cheng Uei Precision Industry Co., Ltd. (Foxlink)
 05c9 Semtech Corp.
 05ca Ricoh Company Ltd.
 0101 RDC-5300 Digital Camera
 2201 RDC-7 Digital Camera

05cb PowerVision Technologies Inc.
 1483 Trust CombiScan 19200

05cc ELSA AG
 2100 MicroLink ISDN Office
 2219 MicroLink ISDN
 2265 MicroLink 56k
 2280 MicroLink 56k Fun
 3000 Micolink USB2Ethernet [pegasus]

05cd Silicom Ltd.
 05ce SICAN GmbH
 05cf Sung Forn Co. Ltd.
 05d0 Lunar Corp.
 05d1 Brainboxes Limited
 05d2 Wave Systems Corp.
 05d6 Philips Semiconductors, CICT
 05d7 Thomas & Betts Corp.
 0099 10Mbps Ethernet [klsi]

05d8 Ultima Electronics Corp.
 4002 Lifetec LT9385 Scanner

05d9 Axiohm Transaction Solutions
 05da Microtek International Inc.
 0093 ScanMaker V6USL
 0094 Phantom 336CX/C3
 0099 ScanMaker X6/X6U
 009a Phantom C6

00a0 Phantom 336CX/C3 (#2)
00b6 ScanMaker V6UPL
1011 NHJ Che-ez! Kiss Digital Camera
30cf ScanMaker 4800
40ca ScanMaker 3600
80a3 ScanMaker V6USL (#2)
80ac ScanMaker V6UL/SpicyU
05db Suntac
05dc Lexar Media, Inc.
05dd Delta Electronics Inc.
05e0 Symbol Technologies
05e3 Genesys Logic, Inc.
 000a Keyboard with PS/2 Port
 000b Mouse
 0120 Pacific Image Electronics PrimeFilm 1800u slide/negative
scanner
 0300 GLUSB98PT Parallel Port
 0502 GL620USB GeneLink USB-USB Bridge
 0700 SIIG US2256 CompactFlash Card Reader
 1205 Afilias Optical Mouse H3003
05e5 Fuji Electric Co., Ltd.
05e6 Keithley Instruments
05e9 Kawasaki LSI
 0008 KL5KUSB101B Ethernet [klsi]
 0009 Sony 10Mbps Ethernet [pegasus]
05eb FFC Limited
05ef AVB, Inc. [anko?]
 020a Top Shot Pegasus Joystick
 8884 Mag Turbo Force Wheel
 8888 Top Shot Force Feedback Racing Wheel
05f0 Canopus Co., Ltd.
 0101 DA-Port DAC
05f2 Dexin Corp., Ltd.
05f3 PI Engineering, Inc.
 020b PS2 Adapter
 0264 X-Keys Switch Interface, Composite Mode
 0232 X-Keys Switch Interface, Programming Mode
05f5 Unixtar Technology Inc.
05f6 AOC International
05f7 RFC Distribution(s) PTE Ltd.
05f9 PSC Scanning, Inc.
05fa Siemens Telecommunications Systems Limited
05fc Harman Multimedia
05fd InterAct, Inc.
 0251 Raider Pro
 0253 ProPad 8 Digital
 262a 3dfx HammerHead FX
 daae Game Shark
05fe Chic Technology Corp.
 0001 Mouse
 0007 Twinhead Mouse
 0009 Inland Pro 4500/5000 Mouse
 0011 Browser Mouse
05ff LeCroy Corp.
0600 Barco Display Systems
0601 Jazz Hipster Corp.
0602 Vista Imaging Inc.
 1001 ViCam WebCam
0603 Novatek Microelectronics Corp.
 6871 Mouse
0604 Jean Co, Ltd.

0606 Royal Information Electronics Co., Ltd.
0607 Bridge Information Co., Ltd.
0609 SMK Manufacturing Inc.
060a Worthington Data Solutions, Inc.
060b Solid Year (?)
 0001 MacAlly Keyboard
 2101 Solid Year Keyboard
060c EEH Datalink GmbH
060f Joinsoon Electronics Mfg. Co., Ltd.
0611 Totoku Electric Co., Ltd.
0613 Ithaca Peripherals
0614 Bio-Rad Laboratories
0616 Future Techno Designs PVT. Ltd.
0618 MacAlly
 0101 Mouse
0619 Seiko Instruments Inc.
061c Act Labs, Ltd.
061d Quatech, Inc.
061e Nissei Electric Co.
0620 Alaris, Inc.
0621 ODU-Steckverbindungssysteme GmbH & Co. KG
0623 Littelfuse, Inc.
0624 Apex, Inc.
0626 Nippon Systems Development Co., Ltd.
0629 Zida Technologies Limited
062b Greatlink Electronics Taiwan Ltd.
062d Taiwan Tai-Hao Enterprises Co. Ltd.
062e Mainsuper Enterprises Co., Ltd.
062f Sin Sheng Terminal & Machine Inc.
0634 Micron Technology, Inc.
0636 Sierra Imaging, Inc.
0638 Avision, Inc.
 0268 iVina 1200U Scanner
 026a Minolta Dimage Scan Dual II
 4004 Minolta Dimage Scan Elite II
063d Fong Kai Industrial Co., Ltd.
063f New Technology Cable Ltd.
0640 Hitex Development Tools
0641 Woods Industries, Inc.
0642 VIA Medical Corp.
0644 TEAC Corp.
 0000 Floppy
0645 Who? Vision Systems, Inc.
0646 UMAX
0648 Inside Out Networks
064b White Mountain DSP, Inc.
064c Ji-Haw Industrial Co., Ltd.
064f WIBU-Systems AG
0651 Likom Technology Sdn. Bhd.
0652 Stargate Solutions, Inc.
0654 Granite Microsystems, Inc.
0655 Space Shuttle Hi-Tech Co, Ltd.
0656 Glory Mark Electronic Ltd.
0657 Tekcon American Corp.
065a Optoelectronics Co., Ltd.
 0001 Barcode scanner
065e Silicon Graphics
065f Good Way Industrial Co.,, Ltd. & GWC Technology, Inc.
0660 TSAY-E (BVI) International, Inc.
0661 Hamamatsu Photonics K.K.
0663 Topmax Electronic Co., Ltd.

0103 CobraPad
 0667 Aiwa Co., Ltd.
 0fal TD-U8000 Tape Drive
 0668 WordWand
 0669 Oce' Printing Systems GmbH
 066a Total Technologies, Ltd.
 066b Linksys Inc.
 0105 SCM eUSB SmartMedia Card Reader
 010a Melco MCR-U2 SmartMedia / CompactFlash Reader
 2202 USB10TX Ethernet [pegasus]
 2203 USB100TX Ethernet [pegasus]
 2204 USB100TX HomePNA Ethernet [pegasus]
 2206 USB Ethernet [pegasus]
 2211 WUSB11 Wireless Ethernet
 066d Entrega Inc.
 066e Acer Semiconductor America, Inc.
 066f SigmaTel, Inc.
 4200 STIr4200 IrDA Bridge
 0672 Labtec Inc.
 1041 LCS1040 Speaker System
 5000 SpaceBall 4000 FLX
 0673 HCL
 5000 Keyboard
 0674 Key Mouse Electronic Enterprise Co., Ltd.
 0675 Draytech
 0110 Vigor 128 ISDN TA
 0676 Teles AG
 0677 Aiwa Co., Ltd.
 0fal TD-U8000 Tape Drive
 0678 ACard Technology Corp.
 067b Prolific Technology, Inc.
 0000 PL2301 USB-USB Bridge
 0001 PL2302 USB-USB Bridge
 2307 PL2307 USB-ATAPI4 Bridge
 2303 PL2303 Serial Port
 2305 PL2305 Parallel Port
 2315 Flash Disk Embedded Hub
 2316 Flash Disk Security Device
 2317 Mass Storage Device
 067c Efficient Networks, Inc.
 1001 Siemens SpeedStream 100Mbps Ethernet
 1022 Siemens 802.11b Wireless Ethernet
 4060 Alcatel Speedstream 4060 ADSL Modem
 067d Hohner Corp.
 067e Intermec
 067f Virata Ltd.
 0680 Avance Logic, Inc.
 0681 Siemens Information and Communication Products
 0002 Gigaset 3075 Passive ISDN
 0005 Mouse with Fingerprint Reader
 0012 I-Gate 11MB Wireless Lan
 0684 Actiontec Electronics, Inc.
 0686 Minolta Co., Ltd.
 4006 Dimage 7 digital still camera
 4007 Dimage S304 digital still camera
 4009 Dimage X digital still camera
 400a Dimage S404 digital still camera
 400b Dimage 7i digital still camera
 068a Pertech Inc.
 068e CH Products, Inc.
 00ff Flight Sim Yoke

0500 GameStick 3D
 0501 CH Pro Pedals
 0504 F-16 Combat Stick
 0690 Golden Bridge Electric Co., Ltd.
 0693 Hagiwara Sys-Com
 0002 FlashGate SmartMedia Card Reader
 0003 FlasgGate CompactFlash Card Reader
 0005 FlashGate
 0694 Lego Group
 0001 Mindstorms Tower
 0698 Chuntex (CTX)
 1786 1300ex Monitor
 9999 VLxxxx Monitor+Hub
 0699 Tektronix, Inc.
 069a Askey Computer Corp.
 0001 VC010 WebCam [pwc]
 069b Thomson Multimedia, Inc.
 069d Hughes Network Systems (HNS)
 0002 Satellite Device
 069e Marx
 0005 CryptoBox v1.2
 069f Allied Data Technologies BV
 0010 Tornado Speakerphone FaxModem 56.0
 06a2 Topro Technology Inc.
 06a3 Saitek PLC
 0006 Cyborg Gold Joystick
 052d P750 Gamepad
 053f X36F Flightstick
 100a SP550 Pad and Joystick Combo
 100b SP550 Pad
 06a5 Divio
 d001 ProLink DS3303u WebCam
 06a8 Topaz Systems, Inc.
 0042 SignatureGem 1X5 Pad
 0043 SignatureGem 1X5-HID Pad
 06a9 Westell
 06aa Sysgration Ltd.
 06ac Fujitsu PC Corp.
 06ad Greatland Electronics Taiwan Ltd.
 06ae Professional Multimedia Testing Centre
 06b8 Pixela Corporation
 06b9 Alcatel Telecom
 4061 Speed Touch ISDN
 a5a5 DynaMiTe Modem
 06ba Smooth Cord & Connector Co., Ltd.
 06bb EDA Inc.
 06bc Oki Data Corp.
 06bd AGFA-Gevaert NV
 0001 SnapScan 1212U
 0002 SnapScan 1236U
 0100 SnapScan Touch
 0403 ePhoto CL18 Camera
 0404 ePhoto CL20 Camera
 2061 SnapScan 1212U (?)
 208f SnapScan e50
 20fd SnapScan e52
 06be Asia Microelectronic Development, Inc.
 06bf Leoco Corp.
 06c4 Bizlink International Corp.
 06c5 Hagenuk, GmbH
 06c6 Infowave Software Inc.

06c8 SIIG, Inc.
06c9 Taxan (Europe) Ltd.
06ca Newer Technology, Inc.
06cb Synaptics
06cc Terayon Communication Systems
06cd Keyspan
 0101 USA-28 PDA [preenum]
 0102 USA-28X PDA [preenum]
 0103 USA-19 PDA [preenum]
 0104 PDA [prerenum]
 0105 USA-18X PDA [preenum]
 0106 USA-19W PDA [preenum]
 0107 USA-19 PDA
 0108 USA-19W PDA
 010b USA-19Q PDA
 010f USA-28 PDA
 0110 USA-28X PDA
 0112 USA-18X PDA
 0114 USA-28X PDA
 0118 USA-19QW PDA
 0201 Digital Media Remote
06cf SpheronVR AG
 1010 PanoCam 10
 1012 PanoCam 12/12X
06d0 LapLink, Inc.
 0622 LapLink Gold USB-USB Bridge [net1080]
06d1 Daewoo Electronics Co Ltd.
06d3 Mitsubishi Electric Corp.
06d5 Toshiba
 4000 Japanese Keyboard
06d6 Aashima Technology B.V.
06d7 Network Computing Devices (NCD)
06d8 Technical Marketing Research, Inc.
06da Phoenixtec Power Co., Ltd.
06db Paradyne
06dc Foxlink Image Technology Co., Ltd. (Compeye)
06de Heisei Electronics Co. Ltd.
06e0 Multi-Tech Systems, Inc.
 f101 MT5634ZBA MultiModem 56k Intl.
 f104 MT5634ZBA MultiModem 56k
06e1 ADS Technologies, Inc.
 0008 UBS-10BT Ethernet [klsi]
06e4 Alcatel Microelectronics
06e6 Tiger Jet Network, Inc.
06ea Sirius Technologies
 0001 NetCom Roadster II 56k
 0002 Roadster II 56k
06ef I.A.C. Geometrische Ingenieurs B.V.
06f0 T.N.C Industrial Co., Ltd.
06f1 Opcode Systems Inc.
06f2 Machkey International (USA)
06f6 Wintrend Technology Co., Ltd.
06fa HSD S.r.L
06fd Boston Acoustics
06fe Gallant Computer, Inc.
0701 Supercomal Wire & Cable SDN. BHD.
0703 Bvtech Industry Co., Ltd.
0705 NKK Corporation
0707 Standard Microsystems Corp
 0100 2202 Ethernet [klsi]
 0200 2202 Ethernet [pegasus]

0709 Silicon Systems Ltd. (SSL)
070a Oki Electric Industry Co., Ltd.
070d Comoss Electronic Co., Ltd.
0710 Connect Tech Inc.
 0001 WhiteHeat (fake ID)
 8001 WhiteHeat
0711 Magic Control Technology Corp.
 0100 Hub
 0200 BAY-3U1S1P Serial Port
 0210 MCT1S Serial Port
 0230 MCT-232 Serial Port
 0231 PS/2 Mouse Port
 0240 PS/2 to USB Converter
 0300 BAY-3U1S1P Parallel Port
 0302 Parallel Port
0714 NewMotion, Inc.
 0003 ADB to USB convertor
0718 Imation Corp.
0719 Tremon Enterprises Co., Ltd.
071b Domain Technologies, Inc.
 0002 DTI-56362-USB Digital Interface Unit
 0101 Audio4-USB DSP Data Acquisition Unit
 0201 Audio4-5410 DSP Data Acquisition Unit
 0301 SB-USB JTAG Emulator
071c Xionics Document Technologies, Inc.
071d Eicon Technology Corp.
 1000 Diva ISDN TA
0723 Centillium Communications Corp.
0726 Vanguard International Semiconductor-America
0729 Amitm
 1000 USC-1000 Serial Port
072e Sunix Co., Ltd.
072f ACS, Ltd.
 0001 ACR20U SmartCard Reader
0731 SusTeen, Inc.
0732 Goldfull Electronics & Telecommunications Corp.
0733 ViewQuest Technologies, Inc.
 0401 CS330 WebCam
 0402 M-318B WebCam
 0430 Intel Pro Share WebCam
0734 Lasat Communications A/S
 0001 560V Modem
0735 Asuscom Network
 c541 ISDN TA 280
0738 Mad Catz, Inc.
073e NEC, Inc.
 0301 Game Pad
073b Suncom Technologies
0745 Syntech Information Co., Ltd.
0746 Onkyo Corp.
0747 Labway Corp.
0748 Strong Man Enterprise Co., Ltd.
0749 EVer Electronics Corp.
074a Ming Fortune Industry Co., Ltd.
074b Polestar Tech. Corp.
074c C-C-C Group PLC
074d Micronas Intermetall GmbH
074e Digital Stream Corp.
 0001 PS/2 Adapter
 0002 PS/2 Adapter
0755 Aureal Semiconductor

0757 Network Technologies, Inc.
0763 Midiman
 1001 Midisport 2x2
 1010 Midisport 1x1
 1020 Midisport 4x4
 1030 Midisport 8x8
0764 Cyber Power System, Inc.
0765 X-Rite Incorporated
0766 Jess-Link Products Co., Ltd.
0768 Camtel Technology Corp.
0769 Surecom Technology Corp.
076a Smart Technology Enablers, Inc.
076b Utimaco Safeware AG
076c Partner Tech
076d Denso Corp.
076e Kuan Tech Enterprise Co., Ltd.
076f Jhen Vei Enterprise Co., Ltd.
0774 AmTRAN Technology Co., Ltd.
0775 Longshine Electronics Corp.
0776 Inalways Corp.
0777 Comda Enterprise Corp.
0779 Fairchild Semiconductor
077a Sankyo Seiki Mfg. Co., Ltd.
077b Linksys
077c Forward Electronics Co., Ltd.
 0005 NEC Keyboard
077d Griffin Technology
 0223 IMic Audio In/Out
077f Well Excellent & Most Corp.
0781 SanDisk Corp.
 0001 SDDR-05a ImageMate CompactFlash Reader
 0002 SDDR-31 ImageMate II CompactFlash Reader
 0005 SDDR-05b (CF II) ImageMate CompactFlash Reader
 0200 SDDR-09 (SSFDC) ImageMate SmartMedia Reader [eusb]
0782 Trackerball
0784 Vivitar Inc.
 0100 Vivicam 2655
 1310 Vivicam 3305
 1688 Vivicam 3665
 5260 Werlisa Sport PX 100
0785 NTT-ME
 0001 MN128mini-V ISDN TA
 0003 MN128mini-J ISDN TA
0789 Logitech Corporation
078b Happ Controls, Inc.
 0010 Driving UGCI
 0020 Flying UGCI
 0030 Fighting UGCI
078e Brincom Inc.
0790 Pro-Image Manufacturing Co., Ltd.
0791 Copartner Wire and Cable Mfg. Corp.
0792 Axis Communications AB
0793 Wha Yu Industrial Co., Ltd.
0794 ABL Electronics Corp.
0795 RealChip Inc.
0796 Certicom Corp.
0797 Grandtech Semiconductor Corp.
 8001 SmartCam
079b Sagem
079d Alfadata Computer Corp.
 0201 GamePort Adapter

07a1 Digicom S.p.A.
 d952 Palladio USB V.92 Modem
 07a2 National Technical Systems
 07a3 Onnto Corp.
 07a4 Be Incorporated
 07a6 ADMtek Incorporated
 0986 AN986 Pegasus Ethernet
 8511 ADM8511 Pegasus II Ethernet
 07aa Correga K.K.
 0001 Ether USB-T Ethernet [klsi]
 0004 FEther USB-TX Ethernet [pegasus]
 07ab Freecom Technologies
 fc01 IDE bridge
 fc03 USB2-IDE IDE bridge
 07af Microtech
 0004 SCSI-DB25 SCSI Bridge [shuttle]
 0005 SCSI-HD50 SCSI Bridge [shuttle]
 0006 CameraMate SmartMedia and CompactFlash Card Reader
 [eusb/shuttle]
 07b0 Trust Technologies
 0001 ISDN TA
 07b1 IMP, Inc.
 07b2 Motorola ING
 4100 SB4100 Cable Modem
 07b3 Plustek, Inc.
 0001 OpticPro 1212U Scanner
 0010 OpticPro U12 Scanner
 0011 OpticPro U24 Scanner
 0013 OpticPro UT12 Scanner
 0015 OpticPro U24 Scanner
 0017 OpticPro UT12/16/24 Scanner
 07b4 Olympus Optical Co., Ltd.
 0100 Camedia C-2100/C-3000 Ultra Zoom Camera
 0102 Camedia E-10/C-220 Camera
 0105 Camedia C-700/C-3040/C-4000 Zoom Camera
 0203 Digital Voice Recorder DW-90
 07b5 Mega World International Ltd.
 9902 GamePad
 07b6 Marubun Corp.
 07b7 TIME Interconect Ltd.
 07b8 D-Link, Inc.
 abc1 DU-E10 Ethernet [pegasus]
 4000 DU-E10 Ethernet [klsi]
 4002 DU-E100 Ethernet [pegasus]
 f101 DSB-560 Modem [atlas]
 07bc Canon Computer Sytems, Inc.
 07bd Webgear Inc.
 07be Veridicom
 07c0 Code Mercenaries Hard- und Software GmbH
 07c4 DataFab Systems, Inc.
 a000 CompactFlash Card Reader
 a001 CompactFlash & SmartMedia Card Reader [eusb]
 a002 Disk Drive
 a005 CompactFlash & SmartMedia Card Reader
 a006 SmartMedia Card Reader
 a109 LC1 CompactFlash & SmartMedia Card Reader
 a400 CompactFlash & Microdrive Reader
 07c5 APG Cash Drawer
 07c6 Share Wave, Inc.
 07c7 Powertech Industrial Co., Ltd.
 07c8 B.U.G., Inc.

07c9 Allied Telesyn International
07ca AVerMedia Technologies, Inc.
07cb Kingmax Technology Inc.
07cc Carry Computer Eng., Co., Ltd.
 0000 CF Card Reader
 0003 SM Card Reader
 0004 SM/CF/PCMCIA Card Reader
 0006 SM/CF/PCMCIA Card Reader
 000c SM/CF Card Reader
 000d SM/CF Card Reader
 0200 6-in-1 Card Reader
07cd Elektor
 0001 USBuart Serial Port
07cf Casio Computer Co., Ltd.
 1001 QV-8000SX/3000EX Digicam
 2002 E-125 Cassiopeia Pocket PC
 3801 Casio WMP-1 MP3-Watch
 4500 LV-20 Digital Camera
07d1 D-Link System
07d2 Aptio Products Inc.
07d3 Cyberdata Corp.
07d7 GCC Technologies, Inc.
07da Arasan Chip Systems
07df David Electronics Company, Ltd.
07e1 Ambient Technologies, Inc.
 5201 V.90 Modem
07e2 Elmeg GmbH & Co., Ltd.
07e3 Planex Communications, Inc.
07e4 Movado Enterprise Co., Ltd.
07e5 QPS, Inc.
 5c01 Que! CDRW
07e6 Allied Cable Corp.
07e7 Mirvo Toys, Inc.
07e8 Labsystems
07ea Iwatsu Electric Co., Ltd.
07eb Double-H Technology Co., Ltd.
07ec Taiyo Electrical Wire & Cable Co., Ltd.
07f9 Dotop Technology, Inc.
07fa Draytek
 0778 miniVigor 128 ISDN TA
07f6 Circuit Assembly Corp
07f7 Century Corp.
07fd Mark of the Unicorn
 0000 FastLane MIDI Interface
0801 Mag-Tek
0802 Tritheim Technologies, Inc.
0803 Zoom Telephonics, Inc.
 9700 2986L FaxModem
0809 Genicom Corp.
080a Evermuch Technology Co., Ltd.
080d Teco Image Systems Co., Ltd.
 0102 Hercules Scan@home 48
0810 Personal Communication Systems, Inc.
0813 Mattel, Inc.
081a MG Logic
 1000 Duo Pen Tablet
081b Indigita Corporation
081c Mipsys
081e AlphaSmart, Inc.
0822 Reudo Corp.
0825 GC Protronics

0826 Data Transit
0827 BroadLogic, Inc.
0828 Sato Corp.
0829 Telocity, Inc.
082d Handspring
 0100 Visor
0830 Palm Computing, Inc.
 0002 Palm M505
 0003 Palm M515
 0020 Palm I705
 0040 Palm M125
 0050 Palm M130
 0080 Palm
0832 Kouwell Electronics Corp.
0833 Sourcenext Corp.
0835 Action Star Enterprise Co., Ltd.
0839 Samsung Aerospace Industries Ltd.
 0005 Digimax Camera
 1003 Digimax 210SE
 1542 Digimax 50 Duo
083a Accton Technology Corp.
 1046 10/100 Ethernet [pegasus]
 5046 SpeedStream 10/100 Ethernet [pegasus]
083f Global Village
 b100 TelePort V.90 Fax/Modem
0840 Argosy Research Inc.
0841 Rioport.com Inc.
 0001 Rio 500
0844 Welland Industrial Co., Ltd.
0846 NetGear, Inc.
 1001 EA101 Ethernet [klsi]
084d Minton Optic Industry Co., Inc.
 0003 S-Cam F5 Digital Camera
084e KB Gear
 1002 Pablo Tablet
084f Empeg
 0001 Empeg-Car Mark I/II Player
0850 Fast Point Technologies, Inc.
0851 Macronix International Co., Ltd.
 1543 Maxell WS30 Slim Digital Camera
0852 CSEM
0854 ActiveWire Inc.
 0100 I/O Board
 0101 I/O Board, rev1
0858 Hitachi Maxell Ltd.
0859 Minolta Systems Laboratory, Inc.
085a Xircom
 0001 Portstation Dual Serial Port
 8027 PGSDB9 Serial Port
0862 Teletrol Systems, Inc.
0863 Filanet Corp.
0864 NetGear, Inc.
 4100 MA101 Wireless Adapter
 4102 MA101 Wireless Adapter
086a Emagic Soft-und Hardware GmbH
086c DeTeWe - Deutsche Telephonwerke AG & Co.
 1001 Eumex 504PC ISDN TA
086e System TALKS Inc.
086f MEC IMEX Inc/HPT
0870 Metricom
0871 SanDisk, Inc.

0001 SDDR-01 Compact Flash Reader
0002 SDDR-31 Compact Flash Reader
0005 SDDR-05 Compact Flash Reader
0873 Xpeed Inc.
0874 A-Tec Subsystem, Inc.
0879 Comtrol Corp.
087c Adesso/Kbtek America Inc.
087d Jaton Corp.
087e Fujitsu Computer Products of America
087f Virtual IP Group, Inc.
0880 APT Technologies Inc.
0883 Recording Industry Association of America (RIAA)
0885 Boca Research, Inc.
0886 XAC Automation Corp.
0887 Hannstar Electronics Corp.
088b MassWorks, Inc.
 4944 MassWorks ID-75 TouchScreen
0892 DioGraphy Inc.
089c United Technologies Research Cntr.
089d Icron Systems Inc.
089e NST Co., Ltd.
089f Primex Aerospace Co.
08a5 e9 Inc.
08a8 Andrea Electronics
08ae Macally (Mace Group, Inc.)
08b4 Sorenson Vision, Inc.
08b8 J. Gordon Electronic Design, Inc.
 01f4 USBSIMM1
08b9 Tandy Corp./Radio Shack
08bb Texas Instruments Japan
08bd Citizen Watch Co., Ltd.
08c3 Precise Biometrics
 0101 Precise 100 MC FingerPrint and SmartCard Reader
08c4 Proxim, Inc.
08c7 Key Nice Enterprise Co., Ltd.
08c8 2Wire, Inc.
08c9 Nippon Telegraph and Telephone Corp.
08ca AIPTEK International Inc.
 0020 APT-6000U Tablet
 0021 APT-2 Tablet
 0103 Pocket DV Digital Camera
08cd Jue Hsun Ind. Corp.
08ce Long Well Electronics Corp.
08cf Productivity Enhancement Products
08d1 smartBridges, Inc.
 0001 smartNIC Ethernet [catc]
08d3 Virtual Ink
08d4 Siemens PC Systems
08dd Billionton Systems, Inc.
 0986 USB-100N Ethernet [pegasus]
 0987 USBLP-100 HomePNA Ethernet [pegasus]
 0988 USBEL-100 Ethernet [pegasus]
 8511 USBE-100 Ethernet [pegasus2]
08df Spyrus Inc.
08e3 Olitec, Inc.
 0002 USB-RS232 Bridge
08e4 Pioneer Corp.
08e5 Litronic
08e6 Gemplus
 0430 GemPC430 SmartCard Reader
 0432 GemPC432 SmartCard Reader

0435 GemPC435 SmartCard Reader
08e7 Pan-International Wire & Cable
08e8 Integrated Memory Logic
08e9 Extended Systems, Inc.
0100 XTNDAccess IrDA Dongle
08ea Ericsson Inc., Blue Ridge Labs
08ec M-Systems Flash Disk Pioneers
0010 DiskOnKey
08ee CCSI/Hesso
08f0 Corex Technologies
08f1 CTI Electronics Corp.
08f5 SYSTEC Co., Ltd.
08f6 Logic 3 International Limited
08f8 Keen Top International Enterprise Co., Ltd.
08f9 Wipro Technologies
08fa Caere
08fb Socket Communications
08fc Sicon Cable Technology Co. Ltd.
08fd Digianswer A/S
08ff AuthenTec, Inc.
0900 Pinnacle Systems, Inc.
0901 VST Technologies
0906 Faraday Technology Corp.
090a Trumpion Microelectronics Inc.
090b Neurosmith
090c Feiya Technology Corp.
090d Multiport Computer Vertriebs GmbH
090e Shining Technology, Inc.
090f Fujitsu Devices Inc.
0910 Alation Systems, Inc.
0911 Philips Speech Processing
0912 Voquette, Inc.
0915 GlobeSpan, Inc.
0917 SmartDisk Corp.
0919 Tiger Electronics
0100 Fast Flicks Digital Camera
091e Garmin International
0920 Echelon Co.
0921 GoHubs, Inc.
0922 Dymo-CoStar Corp.
0923 IC Media Corp.
010f SIIG MobileCam
0924 Xerox
0927 Summus, Ltd.
0928 Oxford Semiconductor Ltd.
0929 American Biometric Company
092a Toshiba Information & Industrial Sys. And Services
092b Sena Technologies, Inc.
0930 Toshiba Corp.
0931 Harmonic Data Systems Ltd.
0932 Crescentec Corp.
0933 Quantum Corp.
0934 Netcom Systems
0939 Lumberg, Inc.
093a Pixart Imaging, Inc.
093b Plextor
093d InnoSync, Inc.
093e J.S.T. Mfg. Co., Ltd.
093f Olympia Telecom Vertriebs GmbH
0940 Japan Storage Battery Co., Ltd.
0941 Photobit Corp.

0942 i2Go.com, LLC
0943 HCL Technologies India Private Limited
0944 KORG, Inc.
0945 Pasco Scientific
0948 Kronauer music in digital
 1105 USB One
 0301 USB Pro (24/48)
 0302 USB Pro (24/96 playback)
 0303 USB Pro (24/96 record)
 0304 USB Pro (16/48)
094b Linkup Systems Corp.
094d Cable Television Laboratories
0951 Kingston Technology
 000a KNU101TX 100baseTX Ethernet
0954 RPM Systems Corp.
0955 NVidia
0956 BlueWater Systems, Inc.
0957 Agilent Technologies, Inc.
0958 CompuLink Research, Inc.
0959 Cologne Chip Designs GmbH
095a Portsmith
095b Medialogic Corp.
095c K-Tec Electronics
095d Polycom, Inc.
0968 Catalyst Enterprises, Inc.
0971 Gretag-Macbeth AG
0973 Schlumberger
0974 Datagraphix, a business unit of Anacom
0975 OL'E Communications, Inc.
0976 Adirondack Wire & Cable
0977 Lightsurf Technologies
0978 Beckhoff GmbH
0979 Jeilin Technology Corp., Ltd.
097a Minds At Work LLC
097b Knudsen Engineering Limited
097c Marunix Co., Ltd.
097d Rosun Technologies, Inc.
097f Barun Electronics Co., Ltd.
0981 Oak Technology Ltd.
0984 Apricorn
0985 cab Produkttechnik GmbH & Co KG
 00a3 A3/200 or A3/300 Label Printer
098c Vitana Corp.
098d INDesign
098e Integrated Intellectual Property Inc.
098f Kenwood TMI Corp.
0993 Gemstar eBook Group, Ltd.
 0001 REB1100 eBook Reader
0996 Integrated Telecom Express, Inc.
09a3 PairGain Technologies
09a4 Contech Research, Inc.
09a5 VCON Telecommunications
09a6 Poinchips
09a7 Data Transmission Network Corp.
09a8 Lin Shiung Enterprise Co., Ltd.
09a9 Smart Card Technologies Co., Ltd.
09aa Intersil Corp.
09ae Tripp Lite
09b2 Franklin Electronic Publishers, Inc.
 0001 eBookman Palm Computer
09b3 Altius Solutions, Inc.

09b4 MDS Telephone Systems
09b5 Celltrix Technology Co., Ltd.
09be MySmart.Com
 0001 MySmartPad
09bf Auerswald GmbH & Co. KG
 00c0 COMPact 2104 ISDN PBX
 00db COMPact 4410/2206 ISDN ISDN
 00f1 COMfort System Telephones
09c1 Arris Interactive LLC
09c3 ActivCard, Inc.
09c2 Nisca Corp.
09c4 ACTiSYS Corp.
 0011 ACT-IR2000U IrDA Dongle
09c5 Memory Corp.
09cc Workbit Corp.
09cd Psion Dacom Home Networks Ltd.
09ce City Electronics Ltd.
09cf Electronics Testing Center, Taiwan
09d1 NeoMagic Inc.
09d2 Vreelin Engineering Inc.
09d3 Com One
09d9 KRF Tech Ltd.
09da A4 Tech Co., Ltd.
09db ComputerBoards Inc.
09dc Aimex Corp.
09dd Fellowes Manufacturing Co.
09df Addonics Technologies Corp.
09e5 Jo-Dan International, Inc.
09e6 Silutia, Inc.
09e7 Real 3D, Inc.
09e8 AKAI Professional M.I. Corp.
09e9 Chen-Source Inc.
09eb IM Networks, Inc.
 4331 iRhythm Tuner Remote
09ef Xitel
 0101 MD-Port DG2 MiniDisc Interface
09f5 AresCom
09f6 RocketChips, Inc.
09f7 Edu-Science (H.K.) Ltd.
09f8 SoftConnex
09f9 Bay Associates
09fa Mtek Vision
09fb Altera
09ff Gain Technology Corp.
0a00 Liquid Audio
0a01 ViA, Inc.
0a0b Cybex Computer Products Co.
0a11 Xentec Incorporated
0a12 Cambridge Silicon Radio Ltd.
0a13 Telebyte Inc.
0a14 Spacelabs Medical Inc.
0a15 Scalar Corp.
0a16 Trek Technology (S) PTE Ltd.
 9988 Trek2000 TD-G2
0a17 Asahi Optical Co., Ltd.
 0004 Pentax Optio 330
0a18 Heidelberger Druckmaschinen AG
0a19 Hua Geng Technologies Inc.
0a21 Medtronic Physio Control Corp.
0a22 Century Semiconductor USA, Inc.
0a2c AK-Modul-Bus Computer GmbH

0008 GPIO Ports
0a39 Gilat Satellite Networks Ltd.
0a3a PentaMedia Co., Ltd.
0a3c NTT DoCoMo, Inc.
0a3d Varo Vision
0a43 Boca Systems Inc.
0a46 Davicom Semiconductor, Inc.
0a47 Hirose Electric
0a48 I/O Interconnect
0a4b Fujitsu Media Devices Limited
0a4c Computex Co., Ltd.
0a4d Evolution Electronics Ltd.
008e MK-249C MIDI Keyboard
0a4e Steinberg Soft-und Hardware GmbH
0a4f Litton Systems Inc.
0a50 Mimaki Engineering Co, Ltd.
0a51 Sony Electronics Inc.
0a52 Jebsee Electronics Co., Ltd.
0a53 Portable Peripheral Co., Ltd.
0a5a Electronics For Imaging, Inc.
0a5b EAsics NV
0a5c Broadcom Corp.
2033 BCM2033 Bluetooth
2035 BCM2035 Bluetooth
0a5d Diatrend Corp.
0a5f Zebra
0009 LP2844 Printer
0a66 ClearCube Technology
0a67 Medeli Electronics Co., Ltd.
0a68 Comaide Corporation
0a69 Chroma ate, Inc.
0a6b Green House
0001 Compact Flash R/W with MP3 player
0a6c Integrated Circuit Systems, Inc.
0a6d UPS Manufacturing
0a6e Benwin
0a6f Core Technology, Inc.
0a70 International Game Technology
0a72 Sanwa Denshi
0a7d NSTL, Inc.
0a7e Octagon Systems Corporation
0a80 Raxon Technology Corp., Ltd
0a81 Chesen Electronics Corp.
0a82 Syscan
0a83 NextComm, Inc.
0a84 Maui Innovative Peripherals
0a85 Idexx Labs
0a86 NITGen Co., Ltd.
0a8d Picturatel
0a8e Japan Aviation Electronics Industry Ltd.
0a90 Candy Technology Co., Ltd.
0a91 Globlink Technology Inc.
0a92 EGO SYStems Inc.
0a93 C Technologies AB
0a94 Intersense
0aa3 Lava Computer Mfg. Inc.
0aa4 Develco Elektronik
0aa5 First International Digital
0aa6 Perception Digital, Ltd.
0aa7 Wincor Nixdorf GmbH & Co KG
0aa8 TriGem Computer, Inc.

0aa9 Baromtec Co.
0aaa Japan CBM Corp.
0aab Vision Shape Europe SA.
0aac iCompression Inc.
0aad Rohde & Schwarz GmbH & Co. KG
0aae Nitsuko Corporation
0aaf Digitalway Co., Ltd.
0ab0 Arrow Strong Electronics Co. Ltd.
0abe Stereo-Link
 0101 SL1200 DAC
0ac3 Sanyo Semiconductor Company Micro
0ac4 Leco Corp.
0ac5 I & C Corporation
0ac6 Singing Electrons, Inc.
0ac7 Panwest Corporation
0ac8 Z-Star Microelectronics Corporation
0ac9 Micro Solutions, Inc.
0acc Koga Electronics Co.
0acd ID Tech
0acf Intoto, Inc.
0ad0 Intellix Corp.
0ad1 Remotec Technology Ltd.
0ad2 Service & Quality Technology Co., Ltd.
0ae3 Allion Computer Inc.
0ae4 Taito Corporation
0ae7 Neodym Systems Inc.
0ae8 System Support Co., Ltd.
0ae9 North Shore Circuit Design L.L.P.
0aea SciEssence, LLC
0aeb TTP Communications Ltd.
0aec Neodio
 5010 ND5010 Card Reader
0af7 B2C2, Inc.
0af6 Silver I Co., Ltd.
0af9 Hama, Inc.
 0010 USB SightCam 100
0afc Zaptronix Ltd
0afd Tateno Dennou, Inc.
0afe Cummins Engine Company
0aff Jump Zone Network Products, Inc.
0b05 ASUSTek Computer Inc.
0b0e GN Netcom
0b0f AVID Technology
0b10 Pcally
0b11 I Tech Solutions Co., Ltd.
0b1e Electronic Warfare Assoc., Inc. (EWA)
0b1f Insyde Software Corp.
0b20 TransDimension Inc.
0b21 Yokogawa Electric Corporation
0b22 Japan System Development Co. Ltd.
0b23 Pan-Asia Electronics Co., Ltd.
0b24 Link Evolution Corp.
0b27 Ritek Corporation
0b2c Village Center, Inc.
0b30 PNY Technologies, Inc.
 0006 SM Media-Shuttle Card Reader
0b33 Contour Design, Inc.
0b37 Hitachi ULSI Systems Co., Ltd.
0b39 Omnidirectional Control Technology, Inc.
0b3a IPaxess
0b3b Tekram Technology Co., Ltd.

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0b3c Olivetti Techcenter
0b41 Hal Corporation
0b47 Sportbug.com, Inc.
0b48 TechnoTrend AG
0b49 ASCII Corporation
0b4e Musical Electronics, Ltd.
0b50 Dumpries Company, Ltd.
0b52 Colorado MicroDisplay, Inc.
0b54 Sinbon Electronics Co., Ltd.
0b56 TYI Systems Ltd.
0b57 Beijing HanwangTechnology Co., Ltd.
0b59 Lake Communications, Ltd.
0b5a Corel Corporation
0b5f Green Electronics Co., Ltd.
0b60 Nsine Limited
0b61 NEC Viewtechnology, Ltd.
0b62 Orange Micro, Inc.
0b63 ADLink Technology, Inc.
0b64 Wonderful Wire Cable Co., Ltd.
0b65 Expert Magnetics Corp.
0b69 CacheVision
0b6a Maxim Integrated Products
0b6f Nagano Japan Radio Co., Ltd
0b70 PortalPlayer, Inc.
0b71 SHIN-EI Sangyo Co., Ltd.
0b72 Embedded Wireless Technology Co., Ltd.
0b73 Computone Corp.
0b75 Roland DG Corporation
0b79 Sunrise Telecom, Inc.
0b7a Zeevo, Inc.
0b7b Taiko Denki Co., Ltd.
0b7c ITRAN Communications, Ltd.
0b7d Astrodesign, Inc.
0b84 Rextron Technology, Inc.
0b85 Elkat Electronics, Sdn., Bhd.
0b86 Exputer Systems, Inc.
0b87 Plus-One I & T, Inc.
0b88 Sigma Koki Co., Ltd., Technology Center
0b89 Advanced Digital Broadcast, Ltd.
0b95 ASIX Electronics Corp.
0b96 Sewon Telecom
0b97 02 Micro, Inc.
0b98 Playmates Toys Inc.
0b99 Audio International, Inc.
0b9d Softprotec Co.
0b9f Chippro Technologies
0baf U.S. Robotics
0bb0 Concord Camera Corp.
0bb1 Infinilink Corporation
0bb2 Ambit Microsystems Corporation
0bb3 Ofuji Technology
0bb4 mm02 PLC

00ce XDA GSM/GPRS Pocket PC

0bb5 Murata Manufacturing Co., Ltd.
0bb6 Network Alchemy
0bb7 Joytech Computer Company Limited
0bb8 Hitachi Semiconductor and Devices Sales Co., Ltd.
0bb9 Eiger M&C Co., Ltd.
0bba ZAccess Systems
0bbb General Meters Corporation

0bbc Assistive Technology, Inc.
0bbd System Connection, Inc.
0bc0 Knilink Technology Inc.
0bc1 Fuw Yng Electronics Company, Ltd.
0bc2 Seagate RSS LLC
0bc3 IPWireless, Inc.
0bc4 Microcube Corp.
0bc5 JCN Co., Ltd.
0bc6 ExWAY Inc.
0bc7 X10 Wireless Technology, Inc.
0bc8 Telmax Communications
0bc9 ECI Telecom Ltd.
0bca Startek Engineering Incorporated
0bcb Perfect Technic Enterprise Co., Ltd.
0bda RealTek Semiconductor Corp.
 8150 RTL8150 Fast Ethernet Adapter
 8151 RTL8151 Adapteon Business Mobile Networks BV
0bdc Y Media Corporation
0bdd Orange PCS
0be2 Kanda Tsushin Kogyo Co., Ltd.
0be3 TOYO Corp.
0be4 Elka International Ltd.
0be5 DOME imaging systems, Inc.
0be6 Dong Guan Humen Wonderful Wire Cable Factory
0bee LTK Industries Ltd.
0bef Way2Call Communications
0bf0 Pace Micro Technology PLC
0bf1 Intracom S.A.
0bf2 Konexx
0bf6 Addonics Technologies, Inc.
 a002 IDE Bridge
0bf7 Sunny Giken, Inc.
0bf8 Fujitsu Siemens Computers
0c04 MOTO Development Group, Inc.
0c05 Appian Graphics
0c06 Hasbro Games, Inc.
0c07 Infinite Data Storage, Ltd.
0c08 Agate
 0378 Q 16MB Storage Device
0c09 Comjet Information System
0c0a Highpoint Technologies, Inc.
0c0b Dura Micro, Inc. (Acomdata)
 a109 CF/SM Reader and Writer
 a10c SD/MS Reader and Writer
 b004 MMC/SD Reader and Writer
0c12 Zeroplus
 0005 PSX Vibration Feedback Converter
0c15 Iris Graphics
0c16 Gyration, Inc.
0c17 Cyberboard A/S
0c18 SynerTek Korea, Inc.
0c19 cyberPIXIE, Inc.
0c1a Silicon Motion, Inc.
0c1b MIPS Technologies
0c1c Hang Zhou Silan Electronics Co., Ltd.
0c22 Tally Printer Corporation
0c23 Lernout + Hauspie
0c24 Taiyo Yuden
0c25 Sampo Corp.
0c35 Eagletron Inc.
0c36 E Ink Corp

0c37 e.Digital
0c38 Der An Electric Wire & Cable Co., Ltd.
0c39 IFR
0c3a Furui Precise Component (Kunshan) Co., Ltd.
0c3b Komatsu Ltd.
0c3c Radius Co., Ltd.
0c3d Innocom, Inc.
0c3e Nextcell INC.
0c44 Motorola iDEN
0c45 Microdia
 1060 iFlash SM-Direct Card Reader
0c46 WaveRider Communications, Inc.
0c52 Sealevel Systems, Inc.
0c53 ViewPLUS, Inc.
0c54 Glory, Ltd.
0c55 Spectrum Digital, Inc.
0c56 Billion Bright, Ltd.
0c57 Imaginative Design Operation Co., Ltd.
0c58 Vidar Systems Corp.
0c59 Dong Guan Shinko Wire Co., Ltd.
0c5a TRS International Mfg., Inc.
0c5e Xytronix Research & Design
0c62 Chant Sincere Co., Ltd
0c63 Toko, Inc.
0c64 Signality System Engineering Co., Ltd.
0c65 Eminence Enterprise Co., Ltd.
0c66 Rexon Electronics Corp.
0c67 Concept Telecom, Ltd.
0c70 MCT Elektronikladen
 0000 USB08 Development board
0c76 JMTek, LLC.
 0003 USBdisk
 0005 USBdisk
0c77 Sipix Group, Ltd.
0c78 Detto Corp.
0c79 NuConnex Technologies Pte., Ltd.
0c7a Wing-Span Enterprise Co., Ltd.
0c86 NDA Technologies, Inc.
0c88 Kyocera Wireless Corp.
0c89 Honda Tsushin Kogyo Co., Ltd.
0c8a Pathway Connectivity, Inc.
0c8b Wavefly Corp.
0c8c Coactive Networks
0c8d Rifocs Corp.
0c8e Cesscom Co., Ltd.
0c8f Applied Microsystems
0c9a Hanwool Robotics Corp.
0c9b Jobin Yvon, Inc.
0c99 Innochips Co., Ltd.
0ca2 Zyfer
0ca3 Sega Corp.
0ca4 ST&T Instrument Corp.
0ca5 BAE Systems Canada, Inc.
0ca6 Castles Automation Co., Ltd.
0ca7 Information Systems Laboratories
0cad Motorola CGISS
0cae Ascom Business Systems, Ltd.
0caf Buslink
 3a00 Hard Drive
0cb0 Flying Pig Systems
0cb1 Innovonics, Inc.

0cb6 Celestix Networks, Pte., Ltd.
0cb7 Singatron Enterprise Co., Ltd.
0cb8 Opticis Co., Ltd.
0cba Trust Electronic (Shanghai) Co., Ltd.
0cbb Shanghai Darong Electronics Co., Ltd.
0cbc Palmax Technology Co., Ltd.
0cbd Pentel Co., Ltd.
0cbe Keryx Technologies, Inc.
0cbf Union Genius Computer Co., Ltd.
0cc0 Kuon Yi Industrial Corp.
0cc1 Given Imaging, Ltd.
0cc2 Timex Corporation
0cc3 Rimage Corporation
0cc4 emsys GmbH
0cc5 Sendo
0cc6 Intermagic Corp.
0cc7 Kontron Medical AG
0cc8 Technotools Corporation
0cc9 BroadMAX Technologies, Inc.
0cca Amphenol
0ccb SKNet Co., Ltd.
0ccc Domex Technology Corp.
0ccd TerraTec Electronic GmbH
0cd7 NewChip S.r.l.
0cd8 JS Digttech, Inc.
0cd9 Hitachi Shin Din Cable, Ltd.
0cf1 e-Conn Electronic Co., Ltd.
0cf2 ENE Technology, Inc.
0cf3 Atheros Communications, Inc.
0cf4 Fomtex Corp.
0cf5 Cellink Co., Ltd.
0cf6 Compucable Corp.
0cf7 ishoni Networks
0cf8 Clarisys, Inc.
0cf9 Central System Research Co., Ltd.
0cfa Inviso, Inc.
0cfc Minolta-QMS, Inc.
0d06 telos EDV Systementwicklung GmbH
0d0b Contemporary Controls
0d0c Astron Electronics Co., Ltd.
0d0d MKNet Corp.
0d0e Hybrid Networks, Inc.
0d0f Feng Shin Cable Co. Ltd.
0d10 Elastic Networks
0d11 Maspro Denkoh Corp.
0d12 Hansol Electronics, Inc.
0d13 BMF Corp.
0d14 Array Comm, Inc.
0d15 OnStream b.v.
0d16 Hi-Touch Imaging Technologies Co., Ltd.
0d17 NALTEC, Inc.
0d18 coaXmedia
0d19 Hank Connection Industrial Co., Ltd.
0d32 Leo Hui Electric Wire & Cable Co., Ltd.
0d33 AirSpeak, Inc.
0d34 Rearden Steel Technologies
0d35 Dah Kun Co., Ltd.
0d3c Sri Cable Technology, Ltd.
0d3d Tangtop Technology Co., Ltd.
0d3e Fitcom, inc.
0d3f MTS Systems Corp.

0d40 Ascor, Inc.
0d42 Full Der Co., Ltd.
0d49 Maxtor
0d4a NF Corp.
0d4b Grape Systems, Inc.
0d4c Tedas AG
0d4d Coherent, Inc.
0d4e Agere Systems Netherland BV
0d4f EADS Airbus France
0d50 Cleware GmbH
0d51 Volex (Asia) Pte., Ltd.
0d53 HMI Co., Ltd.
0d54 Holon Corp.
0d55 Aska Technologies, Inc.
0d56 AVLab Technology, Inc.
0d57 Solomon Microtech Ltd.
0d5e Myacom, Ltd.
0d5f CSI, Inc.
0d60 IVL Technologies, Ltd.
0d61 Meilu Electronics (Shenzhen) Co., Ltd.
0d62 Darfon Electronics Corp.
0d63 Fritz Gegauf AG
0d64 DXG Technology Corp.
0d65 KMJP Co., Ltd.
0d66 TMT
0d67 Advanet Inc.
0d68 Super Link Electronics Co., Ltd.
0d69 NSI
0d6a Megapower International Corp.
0d6b And-Or Logic
0d70 Try Computer Co., Ltd.
0d71 Hirakawa Hewtech Corp.
0d72 Winmate Communication, Inc.
0d73 Hit's Communications, Inc.
0d76 MFP Korea, Inc.
0d77 Power Sentry/Newpoint
0d78 Japan Distributor Corporation
0d7a Marx Datentechnik GmbH
0d7b Wellco Technology Co., Ltd.
0d7c Taiwan Line Tek Electronic Co., Ltd.
0d7e American Computer & Digital Components
0d7d Apacer
 0100 HandyDrive 64MB
 0110 Gigabyte FlexDrive 32MB
0d7f Essential Reality LLC
0d80 H.R. Silvine Electronics, Inc.
0d81 TechnoVision
0d83 Think Outside, Inc.
0d89 Oz Software
0d8a King Jim Co., Ltd.
0d8b Ascom Telecommunications, Ltd.
0d8c C-Media Electronics, Inc.
0d8d Promotion & Display Technology, Ltd.
0d8e Repotec
 7100 Wireless 802.11b Ethernet
0d8f Pitney Bowes
0d90 Sure-Fire Electrical Corp.
0d96 Traveler
 3300 SX330z Digital Camera
 4100 SX410z Digital Camera
0d98 Mars Semiconductor Corp.

0d99 Trazer Technologies, Inc.
0d9a RTX Telecom AS
0d9b Tat Shing Electrical Co.
0d9c Chee Chen Hi-Technology Co., Ltd.
0d9d Sanwa Supply, Inc.
0d9e Avaya
0d9f Powercom Co., Ltd.
0da0 Danger Research
0da1 Suzhou Peter's Precise Industrial Co., Ltd.
0da2 Land Instruments International, Ltd.
0da3 Nippon Electro-Sensory Devices Corp.
0da4 Polar Electro OY
0dad Westover Scientific
0da7 IOGear
0db0 Micro Star International
0db1 Wen Te Electronics Co., Ltd.
0db2 Shian Hwi Plug Parts, Plastic Factory
0db3 Tekram Technology Co., Ltd.
0db4 Chung Fu Chen Yeh Enterprise Corp.
0dbe Jih Shih Precision Industry Co., Ltd.
0dbf Pocketec
0dc0 Great Notions
0dc1 Tamagawa Seiki Co., Ltd.
0dc3 Athena Smartcard Solutions, Inc.
0dc4 Macpower Peripherals, Ltd.
0dc5 SDK Co, Ltd.
0dc6 Precision Squared Technology Corp.
0dc7 First Cable Line, Inc.
0dcd NetworkFab Corporation
 0001 Remote Interface Adapter
 0002 High Bandwidth Codec
0dd1 Contek Electronics Co., Ltd.
0dd2 Power Quotient International Co., Ltd.
0dd3 MediaQ
0dd4 Custom Engineering SPA
0dd5 California Micro Devices
0dd7 Kocom Co., Ltd.
0dd9 HighSpeed Surfing
0dda Integrated Circuit Solution Inc.
0ddb Tamarack Inc.
0ddd Datelink Technology Co., Ltd.
0dde Ubicom, Inc.
0de0 BD Consumer Healthcare
0dee Lifetime Memory Products
0def Full Rise Electronic Co., Ltd.
0df6 Sitecom Europe B.V.
0dfc GeneralTouch Technology Co., Ltd.
 0001 Touchscreen
0e0c Gesytec
 0101 LonUSB LonTalk Network Adapter
0e17 Walex Electronic, Ltd.
0e1b Crewave
0e23 Liou Yuane Enterprise Co., Ltd.
0e25 VinChip Systems, Inc.
0e30 HeartMath LLC
0e34 Micro Computer Control Corp.
0e35 3Pea Technologies, Inc.
0e38 Stratitec, Inc.
0e3a Neostar Technology Co., Ltd.
 1100 CW-1100 Wireless Network Adapter
0e48 Julia Corp., Ltd.

0100 CardPro SmartCard Reader
0e55 Speed Dragon Multimedia, Ltd.
0e5b Union Power Information Industrial Co., Ltd.
0e5c Bitland Information Technology Co., Ltd.
0e66 Hawking
 400c UF100 Ethernet [pegasus2]
0e72 Hsi-Chin Electronics Co., Ltd.
0e75 TVS Electronics, Ltd.
0e7b On-Tech Industry Co., Ltd.
0e92 C's Glory Enterprise Co., Ltd.
0e95 Future Technology Co., Ltd.
0e96 Aplux Communications Ltd.
0ea7 MSL Enterprises Corp.
0ea8 CenDyne, Inc.
0ebe VWeb Corp.
0ec7 Theta Link Corp.
0ee4 Sunrich Technology, Ltd.
0ef0 Hitachi Cable, Ltd.
0ef2 I/O Magic Corp.
0ef3 Lynn Products, Inc.
0ef7 Tulip Computers International
0efe Wem Technology, Inc.
0f06 Visual Frontier Enterprise Co., Ltd.
0f0e Energy Full Corp.
0f13 Acetek Technology Co., Ltd.
0f2d ViPower, Inc.
0f2e Geniality Maple Technology Co., Ltd.
0f32 YFC-BonEagle Electric Co., Ltd.
0f37 Kokuyo Co., Ltd.
0f42 Nital Consulting Services, Inc.
0f4b St. John Technology Co., Ltd.
0f52 Wing Kei Electrical Co., Ltd.
0f53 Dongguan White Horse Cable Factory, Ltd.
0f54 Kawai Musical Instruments Mfg. Co., Ltd.
0f55 AmbiCom, Inc.
0f5d NewAge International, LLC
0f88 VTech Holdings Ltd.
0f8b Yazaki Corp.
0f97 CviLux Corp.
0fa4 ATL Technology
0fa5 Sotec Co., Ltd.
0fb0 Haurtian Wire & Cable Co., Ltd.
0fb2 Juan-Chern Industrial Co., Ltd.
0fb8 Wistron Corporation
0fba San Shing Electronics Co., Ltd.
0fc6 Dataplus Supplies, Inc.
0fcf Dynastream Innovations Inc.
0fe5 Greenconn (U.S.A.) Inc.
0fef MJ Research, Inc.
0fff Aopen, Inc.
1000 Speed Tech Corp.
100a AV Chaseway, Ltd.
100b Chou Chin Industrial Co., Ltd.
1012 SDKM Fibres, Wires & Cables Berhad
1017 Speedy Industrial Supplies, Pte., Ltd.
1031 Comax Technology, Inc.
1046 Winbond Electronics Corp. [hex]
 9967 W9967CF/W9968CF WebCam IC
104c AMCO TEC International Inc.
1054 BMS International Beheer N.V.
1058 Western Digital Technologies, Inc.

105d Delkin Devices, Inc.
1063 Motorola Electronics Taiwan Ltd. [hex]
1555 MC141555 Hub
1065 CCYU Technology
2136 EasyDisk ED1064
106a Loyal Legend, Ltd.
107d Arlec Australia, Ltd.
10ac Honeywell, Inc.
10b5 PLX
9060 Test Board
1132 Toshiba Corp., Digital Media Equipment [hex]
4331 PDR-M4/M5/M70 Digital Camera
4332 PDR-M60 Digital Camera
1183 Compaq Computer Corp. [hex]
4008 56k FaxModem
19c7 ISDN TA
504a PJB-100 Personal Jukebox
108b Grand-tek Technology Co., Ltd.
1099 Surface Optics Corp.
10aa Cables To Go
10c4 Cygnal Integrated Products, Inc.
10fb Pictos Technologies, Inc.
1113 Medion AG
112e Master Hill Electric Wire and Cable Co., Ltd.
1167 Salient Systems Corp.
1190 Tripace
120e Hudson Soft Co., Ltd.
1292 Innomedia
0258 Creative Labs VoIP Blaster
1293 Belkin Components [hex]
0002 F5U002 Parallel Port [uss720]
2101 104-key keyboard
1342 Mobility
0200 EasiDock 200 Hub
0201 EasiDock 200 Keyboard and Mouse Port
0202 EasiDock 200 Serial Port
0203 EasiDock 200 Printer Port
13d2 Shark Multimedia
0400 Pocket Ethernet [klsi]
147a Formosa Industrial Computing, Inc.
1484 Elsa AG [hex]
1746 Ecomo 19H99 Monitor
7616 Elsa Hub
14c2 Gemlight Computer, Ltd.
1554 ProLink Microsystems Co.
1568 Sunf Pu Technology Co., Ltd.
15e8 SohoWare
9100 NUB100 Ethernet [pegasus]
15e9 Pacific Digital Corp.
1604 Tascam
8000 US-428 Audio/Midi Controller (without fw)
8001 US-428 Audio/Midi Controller
1606 Umax [hex]
0010 Astra 1220U
0030 Astra 2000U
0060 Astra 3400U
0230 Astra 2200/2200SU
2020 AstraCam 1000
1608 Inside Out Networks [hex]
0001 EdgePort/4 Serial Port
1403 MultiTech Systems MT4X56 Modem

1645 Entrega [hex]
 0001 1S Serial Port
 0002 2S Serial Port
 0003 1S25 Serial Port
 0004 4S Serial Port
 0005 E45 Ethernet [klsi]
 0006 Parallel Port
 0007 U1-SC25 SCSI
 0093 1S9 Serial Port
 8000 EZ-USB
 8002 2x Serial Port
 8093 PortGear Serial Port
1668 Actiontec Electronics, Inc. [hex]
 0333 Modem
 0421 802.11b Wireless Adapter
1690 Askey Computer Corp. [hex]
 0101 Creative Modem Blaster DE5670
 0103 Askey 1456 VQE-R3 Modem [conexant]
 0109 Askey MagicXpress V.90 Pocket Modem [conexant]
1696 Hitachi Video and Information System, Inc.
1894 Topseed
 5641 TSAM-004 Presentation Remote
1ebb NuCORE Technology, Inc.
2001 D-Link Corp [hex]
 4000 DSB-650C Ethernet [klsi]
 4001 DSB-650TX Ethernet [pegasus]
 4002 DSB-650TX Ethernet [pegasus]
 4003 DSB-650TX-PNA Ethernet [pegasus]
 abc1 DSB-650 Ethernet [pegasus]
2162 Creative (?)
 500c DE5771 Modem Blaster
2222 MacAlly
 0004 iWebKey Keyboard
22b8 Motorola PCS
 1005 Ti280e GSM/GPRS Phone
22b9 eTurboTouch Technology, Inc.
22ba Technology Innovation Holdings, Ltd.
2304 Pinnacle Systems, Inc. [hex]
 0109 Pinnacle Studio PCTV USB (SECAM)
 0111 Miro PCTV USB
 0112 Pinnacle Studio PCTV USB (NTSC) with FM radio
 0210 Pinnacle Studio PCTV USB (PAL) with FM radio
 0212 Pinnacle Studio PCTV USB (NTSC)
 0300 Pinnacle Studio Linx Video input cable (NTSC)
2318 Shining Technologies Inc. [hex]
 0011 CitiDISK Jr. IDE Enclosure
2375 Digit@lway, Inc.
 0001 Digital Audio Player
2899 Toptronic Industrial Co., Ltd.
3125 Eagletron
 0001 TrackerPod Camera Stand
3176 Whanam Electronics Co., Ltd.
3504 Micro Star
 f110 Security Key
3538 Power Quotient International Co., Ltd.
 0001 Travel Flash
3636 InVibro
3838 WEM
 0001 5-in-1 Card Reader
3923 National Instruments
413c Dell Computer Corp.

```

4242 USB Design by Example
      4201 Buttons and Lights HID device
      4220 Echo 1 Camera
544d Transmeta Corp.
55aa OnSpec Electronic Inc.
      1234 ATAPI Bridge
      a103 Sandisk SDDR-55 SmartMedia Card Reader
5543 UC-Logic Technology Corp.
      0002 SuperPen WP3325U Tablet
636c CoreLogic, Inc.
6666 Prototype product Vendor ID
      0667 Smart Joy PSX, PS-PC Smart JoyPad
6a75 Shanghai Jujo Electronics Co., Ltd.
8086 Intel Corp.
      0110 Easy PC Camera
      0431 Intel Pro Video PC Camera
      0510 Digital Movie Creator
      0630 Pocket PC Camera
      9890 82930 Test Board
      c013 Wireless HID Station
c251 Keil Software

```

```
# List of known device classes, subclasses and protocols
```

```
# Syntax:
```

```
# C class class_name
```

```
# subclass subclass_name <-- single tab
```

```
# protocol protocol_name <-- two tabs
```

```
C 00 Interface
```

```
C 01 Audio
```

```
  01 Control Device
```

```
  02 Streaming
```

```
  03 Non Streaming
```

```
C 02 Communications
```

```
  01 Direct Line
```

```
  02 Abstract (modem)
```

```
    00 None
```

```
    01 AT-commands
```

```
    ff Vendor Specific
```

```
  03 Telephone
```

```
  04 Multi-Channel
```

```
  05 CAPI Control
```

```
  06 Ethernet Networking
```

```
  07 ATM Networking
```

```
C 03 Human Interface Devices
```

```
  00 No Subclass
```

```
    00 None
```

```
    01 Keyboard
```

```
    02 Mouse
```

```
  01 Boot Interface Subclass
```

```
    00 None
```

```
    01 Keyboard
```

```
    02 Mouse
```

```
C 06 Imaging
```

```
  01 Still Image Capture
```

```
    01 Picture Transfer Protocol (PIMA 15470)
```

```
C 07 Printer
```

```
  01 Printer
```

```
    00 Reserved/Undefined
```

```
    01 Unidirectional
```

```

        02 Bidirectional
        03 IEEE 1284.4 compatible bidirectional
        ff Vendor Specific
C 08 Mass Storage
    01 RBC (typically Flash)
        00 Control/Bulk/Interrupt
        01 Control/Bulk
        50 Bulk (Zip)
    02 SFF-8020i, MMC-2 (ATAPI)
    03 QIC-157
    04 Floppy (UFI)
        00 Control/Bulk/Interrupt
        01 Control/Bulk
        50 Bulk (Zip)
    05 SFF-8070i
    06 SCSI
        00 Control/Bulk/Interrupt
        01 Control/Bulk
        50 Bulk (Zip)
C 09 Hub
C 0a Data
    30 I.430 ISDN BRI
    31 HDLC
    32 Transparent
    50 Q.921M
    51 Q.921
    52 Q.921TM
    90 V.42bis
    91 Q.932 EuroISDN
    92 V.120 V.24 rate ISDN
    93 CAPI 2.0
    fd Host Based Driver
    fe CDC PUF
    ff Vendor specific
C ff Vendor Specific Class
    ff Vendor Specific Subclass
        ff Vendor Specific Protocol

```

List of Audio Class Terminal Types

Syntax:

AT terminal_type terminal_type_name

```

AT 0100 USB Undefined
AT 0101 USB Streaming
AT 01ff USB Vendor Specific
AT 0200 Input Undefined
AT 0201 Microphone
AT 0202 Desktop Microphone
AT 0203 Personal Microphone
AT 0204 Omni-directional Microphone
AT 0205 Microphone Array
AT 0206 Processing Microphone Array
AT 0300 Output Undefined
AT 0301 Speaker
AT 0302 Headphones
AT 0303 Head Mounted Display Audio
AT 0304 Desktop Speaker
AT 0305 Room Speaker
AT 0306 Communication Speaker
AT 0307 Low Frequency Effects Speaker

```

AT 0400 Bidirectional Undefined
AT 0401 Handset
AT 0402 Headset
AT 0403 Speakerphone, no echo reduction
AT 0404 Echo-suppressing speakerphone
AT 0405 Echo-canceling speakerphone
AT 0500 Telephony Undefined
AT 0501 Phone line
AT 0502 Telephone
AT 0503 Down Line Phone
AT 0600 External Undefined
AT 0601 Analog Connector
AT 0602 Digital Audio Interface
AT 0603 Line Connector
AT 0604 Legacy Audio Connector
AT 0605 SPDIF interface
AT 0606 1394 DA stream
AT 0607 1394 DV stream soundtrack
AT 0700 Embedded Undefined
AT 0701 Level Calibration Noise Source
AT 0702 Equalization Noise
AT 0703 CD Player
AT 0704 DAT
AT 0705 DCC
AT 0706 MiniDisc
AT 0707 Analog Tape
AT 0708 Phonograph
AT 0709 VCR Audio
AT 070a Video Disc Audio
AT 070b DVD Audio
AT 070c TV Tuner Audio
AT 070d Satellite Receiver Audio
AT 070e Cable Tuner Audio
AT 070f DSS Audio
AT 0710 Radio Receiver
AT 0711 Radio Transmitter
AT 0712 Multitrack Recorder
AT 0713 Synthesizer

List of HID Descriptor Types

Syntax:

HID descriptor_type descriptor_type_name

HID 21 HID

HID 22 Report

HID 23 Physical

List of HID Descriptor Item Types

Note: 2 bits LSB encode data length following

Syntax:

R item_type item_type_name

Main Items

R 80 Input

R 90 Output

R b0 Feature

R a0 Collection

R c0 End Collection

```

# Global Items
R 04 Usage Page
R 14 Logical Minimum
R 24 Logical Maximum
R 34 Physical Minimum
R 44 Physical Maximum
R 54 Unit Exponent
R 64 Unit
R 74 Report Size
R 84 Report ID
R 94 Report Count
R a4 Push
R b4 Pop

# Local Items
R 08 Usage
R 18 Usage Minimum
R 28 Usage Maximum
R 38 Designator Index
R 48 Designator Minimum
R 58 Designator Maximum
R 78 String Index
R 88 String Minimum
R 98 String Maximum
R a8 Delimiter

# List of Physical Descriptor Bias Types

# Syntax:
# BIAS item_type item_type_name

BIAS 0 Not Applicable
BIAS 1 Right Hand
BIAS 2 Left Hand
BIAS 3 Both Hands
BIAS 4 Either Hand

# List of Physical Descriptor Item Types

# Syntax:
# PHY item_type item_type_name

PHY 00 None
PHY 01 Hand
PHY 02 Eyeball
PHY 03 Eyebrow
PHY 04 Eyelid
PHY 05 Ear
PHY 06 Nose
PHY 07 Mouth
PHY 08 Upper Lip
PHY 09 Lower Lip
PHY 0a Jaw
PHY 0b Neck
PHY 0c Upper Arm
PHY 0d Elbow
PHY 0e Forearm
PHY 0f Wrist
PHY 10 Palm
PHY 11 Thumb
PHY 12 Index Finger

```

PHY 13 Middle Finger
PHY 14 Ring Finger
PHY 15 Little Finger
PHY 16 Head
PHY 17 Shoulder
PHY 18 Hip
PHY 19 Waist
PHY 1a Thigh
PHY 1b Knee
PHY 1c calf
PHY 1d Ankle
PHY 1e Foot
PHY 1f Heel
PHY 20 Ball of Foot
PHY 21 Big Toe
PHY 22 Second Toe
PHY 23 Third Toe
PHY 24 Fourth Toe
PHY 25 Fifth Toe
PHY 26 Brow
PHY 27 Cheek

List of HID Usages

Syntax:

HUT hi _usage_page hid_usage_page_name
hid_usage hid_usage_name

HUT 00 Undefined
HUT 01 Generic Desktop Controls
000 Undefined
001 Pointer
002 Mouse
004 Joystick
005 Gamepad
006 Keyboard
007 Keypad
008 Multi-Axis Controller
030 Direction-X
031 Direction-Y
032 Direction-Z
033 Rotate-X
034 Rotate-Y
035 Rotate-Z
036 Slider
037 Dial
038 Wheel
039 Hat Switch
03a Counted Buffer
03b Byte Count
03c Motion Wakeup
03d Start
03e Select
040 Vector-X
041 Vector-Y
042 Vector-Z
043 Vector-X relative Body
044 Vector-Y relative Body
045 Vector-Z relative Body
046 Vector
080 System Control

081 System Power Down
082 System Sleep
083 System Wake Up
084 System Context Menu
085 System Main Menu
086 System App Menu
087 System Menu Help
088 System Menu Exit
089 System Menu Select
08a System Menu Right
08b System Menu Left
08c System Menu Up
08d System Menu Down
090 Direction Pad Up
091 Direction Pad Down
092 Direction Pad Right
093 Direction Pad Left
HUT 02 Simulation Controls
000 Undefined
001 Flight Simulation Device
002 Automobile Simulation Device
003 Tank Simulation Device
004 Spaceship Simulation Device
005 Submarine Simulation Device
006 Sailing Simulation Device
007 Motorcycle Simulation Device
008 Sports Simulation Device
009 Airplane Simualtion Device
00a Helicopter Simulation Device
00b Magic Carpet Simulation Device
00c Bicycle Simulation Device
020 Flight Control Stick
021 Flight Stick
022 Cyclic Control
023 Cyclic Trim
024 Flight Yoke
025 Track Control
0b0 Aileron
0b1 Aileron Trim
0b2 Anti-Torque Control
0b3 Autopilot Enable
0b4 Chaff Release
0b5 Collective Control
0b6 Dive Break
0b7 Electronic Countermeasures
0b8 Elevator
0b9 Elevator Trim
0ba Rudder
0bb Throttle
0bc Flight COmmunications
0bd Flare Release
0be Landing Gear
0bf Toe Break
0c0 Trigger
0c1 Weapon Arm
0c2 Weapons Select
0c3 Wing Flaps
0c4 Accelerator
0c5 Brake
0c6 Clutch
0c7 Shifter

0c8 Steering
0c9 Turret Direction
0ca Barrel Elevation
0cb Drive Plane
0cc Ballast
0cd Bicycle Crank
0ce Handle Bars
0cf Front Brake
0d0 Rear Brake
HUT 03 VR Controls
000 Unidentified
001 Belt
002 Body Suit
003 Flexor
004 Glove
005 Head Tracker
006 Head Mounted Display
007 Hand Tracker
008 Oculometer
009 Vest
00a Animatronic Device
020 Stereo Enable
021 Display Enable
HUT 04 Sport Controls
000 Unidentified
001 Baseball Bat
002 Golf Club
003 Rowing Machine
004 Treadmill
030 Oar
031 Slope
032 Rate
033 Stick Speed
034 Stick Face Angle
035 Stick Heel/Toe
036 Stick Follow Through
047 Stick Temp
038 Stick Type
039 Stick Height
050 Putter
051 1 Iron
052 2 Iron
053 3 Iron
054 4 Iron
055 5 Iron
056 6 Iron
057 7 Iron
058 8 Iron
059 9 Iron
05a 10 Iron
05b 11 Iron
05c Sand Wedge
05d Loft Wedge
05e Power Wedge
05f 1 Wood
060 3 Wood
061 5 Wood
062 7 Wood
063 9 Wood
HUT 05 Game Controls
000 Undefined

001 3D Game Controller
002 Pinball Device
003 Gun Device
020 Point Of View
021 Turn Right/Left
022 Pitch Right/Left
023 Roll Forward/Backward
024 Move Right/Left
025 Move Forward/Backward
026 Move Up/Down
027 Lean Right/Left
028 Lean Forward/Backward
029 Height of POV
02a Flipper
02b Secondary Flipper
02c Bump
02d New Game
02e Shoot Ball
02f Player
030 Gun Bolt
031 Gun Clip
032 Gun Selector
033 Gun Single Shot
034 Gun Burst
035 Gun Automatic
036 Gun Safety
037 Gamepad Fire/Jump
038 Gamepad Fun
039 Gamepad Trigger
HUT 07 Keyboard
000 No Event
001 Keyboard ErrorRollOver
002 Keyboard POSTfail
003 Keyboard Error Undefined
004 A
005 B
006 C
007 D
008 E
009 F
00a G
00b H
00c I
00d J
00e K
00f L
010 M
011 N
012 O
013 P
014 Q
015 R
016 S
017 T
018 U
019 V
01a W
01b X
01c Y
01d Z
01e 1 and ! (One and Exclamation)

01f 2 and @ (2 and at)
020 3 and # (3 and Hash)
021 4 and \$ (4 and Dollar Sign)
022 5 and % (5 and Percent Sign)
023 6 and ^ (6 and circumflex)
024 7 and & (Seven and Ampersand)
025 8 and * (Eight and asterisk)
026 9 and ((Nine and Parenthesis Left)
027 0 and) (Zero and Parenthesis Right)
028 Return (Enter)
029 Escape
02a Delete (Backspace)
02b Tab
02c Space Bar
02d - and _ (Minus and underscore)
02e = and + (Equal and Plus)
02f [and { (Bracket and Braces Left)
030] and } (Bracket and Braces Right)
031 \ and | (Backslash and Bar)
032 # and ~ (Hash and Tilde, Non-US Keyboard near right shift)
033 ; and : (Semicolon and Colon)
034 ´ and " (Accent Acute and Double Quotes)
035 ` and ~ (Accent Grace and Tilde)
036 , and < (Comma and Less)
037 . and > (Period and Greater)
038 / and ? (Slash and Question Mark)
039 Caps Lock
03a F1
03b F2
03c F3
03d F4
03e F5
03f F6
040 F7
041 F8
042 F9
043 F10
044 F11
045 F12
046 Print Screen
047 Scroll Lock
048 Pause
049 Insert
04a Home
04b Page Up
04c Delete Forward (without Changing Position)
04d End
04e Page Down
04f Right Arrow
050 Left Arrow
051 Down Arrow
052 Up Arrow
053 Num Lock and Clear
054 Keypad / (Division Sign)
055 Keypad * (Multiplication Sign)
056 Keypad - (Subtraction Sign)
057 Keypad + (Addition Sign)
058 Keypad Enter
059 Keypad 1 and END
05a Keypad 2 and Down Arrow
05b Keypad 3 and Page Down

05c Keypad 4 and Left Arrow
05d Keypad 5 (Tactilei Raised)
05f Keypad 6 and Right Arrow
060 Keypad 7 and Home
061 Keypad 8 and Up Arrow
062 Keypad 8 and Page Up
063 Keypad . (decimal delimiter) and Delete
064 \ and | (Backslash and Bar, UK and Non-US Keyboard near left
shift)
065 Keyboard Application (Windows Key for Win95 or Compose)
066 Power (not a key)
067 Keypad = (Equal Sign)
068 F13
069 F14
06a F15
06b F16
06c F17
06d F18
06e F19
06f F20
070 F21
071 F22
072 F23
073 F24
074 Execute
075 Help
076 Menu
077 Select
078 Stop
079 Again
07a Undo
07b Cut
07c Copy
07d Paste
07e Find
07f Mute
080 Volume Up
081 Volume DOWn
082 Locking Caps Lock
083 Locking Num Lock
084 Locking Scroll Lock
085 Keypad Comma
086 Keypad Equal Sign (AS/400)
087 International 1 (PC98)
088 International 2 (PC98)
089 International 3 (PC98)
08a International 4 (PC98)
08b International 5 (PC98)
08c International 6 (PC98)
08d International 7 (Toggle Single/Double Byte Mode)
08e International 8
08f International 9A
090 LANG 1 (Hangul/English Toggle, Korea)
091 LANG 2 (Hanja Conversion, Korea)
092 LANG 3 (Katakana, Japan)
093 LANG 4 (Hiragana, Japan)
094 LANG 5 (Zenkaku/Hnakaku, Japan)
095 LANG 6
096 LANG 7
097 LANG 8
098 LANG 9

099 Alternate Erase
09a SysReq/Attention
09b Cancel
09c Clear
09d Prior
09e Return
09f Separator
0a0 Out
0a1 Open
0a2 Clear/Again
0a3 CrSel/Props
0a4 ExSel
0e0 Control Left
0e1 Shift Left
0e2 Alt Left
0e3 GUI Left
0e4 Control Right
0e5 Shift Right
0e6 Alt Righth
0e7 GUI Right

HUT 08 LEDs

000 Undefined
001 NumLock
002 CapsLock
003 Scroll Lock
004 Compose
005 Kana
006 Power
007 Shift
008 Do not disturb
009 Mute
00a Tone Enable
00b High Cut Filter
00c Low Cut Filter
00d Equalizer Enable
00e Sound Field ON
00f Surround On
010 Repeat
011 Stereo
012 Sampling Rate Detect
013 Spinning
014 CAV
015 CLV
016 Recording Format Detect
017 Off-Hook
018 Ring
019 Message Waiting
01a Data Mode
01b Battery Operation
01c Battery OK
01d Battery Low
01e Speaker
01f Head Set
020 Hold
021 Microphone
022 Coverage
023 Night Mode
024 Send Calls
025 Call Pickup
026 Conference
027 Stand-by

028 Camera On
029 Camera Off
02a On-Line
02b Off-Line
02c Busy
02d Ready
02e Paper-Out
02f Paper-Jam
030 Remote
031 Forward
032 Reverse
033 Stop
034 Rewind
035 Fast Forward
036 Play
037 Pause
038 Record
039 Error
03a Usage Selected Indicator
03b Usage In Use Indicator
03c Usage Multi Indicator
03d Indicator On
03e Indicator Flash
03f Indicator Slow Blink
040 Indicator Fast Blink
041 Indicator Off
042 Flash On Time
043 Slow Blink On Time
044 Slow Blink Off Time
045 Fast Blink On Time
046 Fast Blink Off Time
047 Usage Color Indicator
048 Indicator Red
049 Indicator Green
04a Indicator Amber
04b Generic Indicator
04c System Suspend
04d External Power Connected

HUT 09 Buttons
000 No Button Pressed
001 Button 1 (Primary)
002 Button 2 (Secondary)
003 Button 3 (Tertiary)

HUT 0a Ordinal
001 Instance 1
002 Instance 2
003 Instance 3

HUT 0b Telephony
000 Unassigned
001 Phone
002 Answering Machine
003 Message Controls
004 Handset
005 Headset
006 Telephony Key Pad
007 Programmable Button
020 Hook Switch
021 Flash
022 Feature
023 Hold
024 Redial

025 Transfer
026 Drop
027 Park
028 Forward Calls
029 Alternate Function
02a Line
02b Speaker Phone
02c Conference
02d Ring Enable
02e Ring Select
02f Phone Mute
030 Caller ID
050 Speed Dial
051 Store Number
052 Recall Number
053 Phone Directory
070 Voice Mail
071 Screen Calls
072 Do Not Disturb
073 Message
074 Answer On/Offf
090 Inside Dial Tone
091 Outside Dial Tone
092 Inside Ring Tone
093 Outside Ring Tone
094 Priority Ring Tone
095 Inside Ringback
096 Priority Ringback
097 Line Busy Tone
098 Recorder Tone
099 Call Waiting Tone
09a Confirmation Tone 1
09b Confirmation Tone 2
09c Tones Off
09d Outside Ringback
0b0 Key 1
0b1 Key 2
0b3 Key 3
0b4 Key 4
0b5 Key 5
0b6 Key 6
0b7 Key 7
0b8 Key 8
0b9 Key 9
0ba Key Star
0bb Key Pound
0bc Key A
0bd Key B
0be Key C
0bf Key D

HUT 0c Consumer
000 Unassigned
001 Consumer Control
002 Numeric Ky Pad
003 Programmable Buttons
020 +10
021 +100
022 AM/PM
030 Power
031 Reset
032 Sleep

033 Sleep After
034 Sleep Mode
035 Illumination
036 Funtion Buttons
040 Menu
041 Menu Pick
042 Menu Up
043 Menu Down
044 Menu Left
045 Menu Right
046 Menu Escape
047 Menu Value Increase
048 Menu Value Decrease
060 Data on Screen
061 Closed Caption
062 Closed Caption Select
063 VCR/TV
064 Broadcast Mode
065 SNaPshot
066 Still
080 Selection
081 Assign Selection
082 Mode Step
083 Recall Last
084 Enter Channel
085 Order Movie
086 Channel
087 Media Selection
088 Media Select Computer
089 Media Select TV
08a Media Select WWW
08b Media Select DVD
08c Media Select Telephone
08d Media Select Program Guide
08e Media Select Video Phone
08f Media Select Games
090 Media Select Messages
091 Media Select CD
092 Media Select VCR
093 Media Select Tuner
094 Quit
095 Help
096 Media Select Tape
097 Media Select Cable
098 Media Select Satellite
099 Media Select Security
09a Media Select Home
09b Media Select Call
09c Channel Increment
09d Channel Decrement
09e Media Select SAP
0a0 VCR Plus
0a1 Once
0a2 Daily
0a3 Weekly
0a4 Monthly
0b0 Play
0b1 Pause
0b2 Record
0b3 Fast Forward
0b4 Rewind

0b5 Scan Next Track
0b6 Scan Previous Track
0b7 Stop
0b8 Eject
0b9 Random Play
0ba Select Disc
0bb Enter Disc
0bc Repeat
0bd Tracking
0be Track Normal
0bf Slow Tracking
0c0 Frame Forward
0c1 Frame Back
0c2 Mark
0c3 Clear Mark
0c4 Repeat from Mark
0c5 Return to Mark
0c6 Search Mark Forward
0c7 Search Mark Backward
0c8 Counter Reset
0c9 Show Counter
0ca Tracking Increment
0cb Tracking Decrement
0cc Stop/Eject
0cd Play/Pause
0ce Play/Skip
0e0 Volume
0e1 Balance
0e2 Mute
0e3 Bass
0e4 Treble
0e5 Bass Boost
0e6 Surround Mode
0e7 Loudness
0e8 MPX
0e9 Volume Increment
0ea Volume Decrement
0f0 Speed Select
0f1 Playback Speed
0f2 Standard Play
0f3 Long Play
0f4 Extended Play
0f5 Slow
100 Fan Enable
101 Fan Speed
102 Light Enable
103 Light Illumination Level
104 Climate Control Enable
105 Room Temperature
106 Security Enable
107 Fire Alarm
108 Police Alarm
150 Balance Right
151 Balance Left
152 Bass Increment
153 Bass Decrement
154 Treble Increment
155 Treble Decrement
160 Speaker System
161 Channel Left
162 Channel Right

163 Channel Center
164 Channel Front
165 Channel Center Front
166 Channel Side
167 Channel Surround
168 Channel Low Frequency Enhancement
169 Channel Top
16a Channel Unknown
170 Sub-Channel
171 Sub-Channel Increment
172 Sub-Channel Decrement
173 Alternative Audio Increment
174 Alternative Audio Decrement
180 Application Launch Buttons
181 AL Launch Button Configuration Tool
182 AL Launch Button Configuration
183 AL Consumer Control Configuration
184 AL Word Processor
185 AL Text Editor
186 AL Spreadsheet
187 AL Graphics Editor
188 AL Presentation App
189 AL Database App
18a AL Email Reader
18b AL Newsreader
18c AL Voicemail
18d AL Contacts/Address Book
18e AL Calendar/Schedule
18f AL Task/Project Manager
190 AL Log/Journal/Timecard
191 AL Checkbook/Finance
192 AL Calculator
193 AL A/V Capture/Playback
194 AL Local Machine Browser
195 AL LAN/Wan Browser
196 AL Internet Browser
197 AL Remote Networking/ISP Connect
198 AL Network Conference
199 AL Network Chat
19a AL Telephony/Dialer
19b AL Logon
19c AL Logoff
19d AL Logon/Logoff
19e AL Terminal Local/Screensaver
19f AL Control Panel
1a0 AL Command Line Processor/Run
1a1 AL Process/Task Manager
1a2 AL Select Task/Application
1a3 AL Next Task/Application
1a4 AL Previous Task/Application
1a5 AL Preemptive Halt Task/Application
200 Generic GUI Application Controls
201 AC New
202 AC Open
203 AC CClose
204 AC Exit
205 AC Maximize
206 AC Minimize
207 AC Save
208 AC Print
209 AC Properties

- 21a AC Undo
- 21b AC Copy
- 21c AC Cut
- 21d AC Paste
- 21e AC Select All
- 21f AC Find
- 220 AC Find and Replace
- 221 AC Search
- 222 AC Go To
- 223 AC Home
- 224 AC Back
- 225 AC Forward
- 226 AC Stop
- 227 AC Refresh
- 228 AC Previous Link
- 229 AC Next Link
- 22b AC History
- 22c AC Subscriptions
- 22d AC Zoom In
- 22e AC Zoom Out
- 22f AC Zoom
- 230 AC Full Screen View
- 231 AC Normal View
- 232 AC View Toggle
- 233 AC Scroll Up
- 234 AC Scroll Down
- 235 AC Scroll
- 236 AC Pan Left
- 237 AC Pan Right
- 238 AC Pan
- 239 AC New Window
- 23a AC Tile Horizontally
- 23b AC Tile Vertically
- 23c AC Format

HUT 0d Digitizer

- 000 Undefined
- 001 Digitizer
- 002 Pen
- 003 Light Pen
- 004 Touch Screen
- 005 Touch Pad
- 006 White Board
- 007 Coordinate Measuring Machine
- 008 3D Digitizer
- 009 Stereo Plotter
- 00a Articulated Arm
- 00b Armature
- 00c Multiple Point Digitizer
- 00d Free Space Wand
- 020 Stylus
- 021 Puck
- 022 Finger
- 030 Tip Pressure
- 031 Barrel Pressure
- 032 In Range
- 033 Touch
- 034 Untouch
- 035 Tap
- 036 Quality
- 037 Data Valid
- 038 Transducer Index

| | |
|--------|----------------------------|
| 039 | Tablet Function Keys |
| 03a | Program Change Keys |
| 03b | Battery Strength |
| 03c | Invert |
| 03d | X Tilt |
| 03e | Y Tilt |
| 03f | Azimuth |
| 040 | Altitude |
| 041 | Twist |
| 042 | Tip Switch |
| 043 | Secondary Tip Switch |
| 044 | Barrel Switch |
| 045 | Eraser |
| 046 | Tablet Pick |
| HUT 0f | PID Page |
| 000 | Undefined |
| 001 | Physical Interface Device |
| 020 | Normal |
| 021 | Set Effect Report |
| 022 | Effect Block Index |
| 023 | Parameter Block Offset |
| 024 | ROM Flag |
| 025 | Effect Type |
| 026 | ET Constant Force |
| 027 | ET Ramp |
| 028 | ET Custom Force Data |
| 030 | ET Square |
| 031 | ET Sine |
| 032 | ET Triangle |
| 033 | ET Sawtooth Up |
| 034 | ET Sawtooth Down |
| 040 | ET Spring |
| 041 | ET Damper |
| 042 | ET Inertia |
| 043 | ET Friction |
| 050 | Duration |
| 051 | Sample Period |
| 052 | Gain |
| 053 | Trigger Button |
| 054 | Trigger Repeat Interval |
| 055 | Axes Enable |
| 056 | Direction Enable |
| 057 | Direction |
| 058 | Type Specific Block Offset |
| 059 | Block Type |
| 05A | Set Envelope Report |
| 05B | Attack Level |
| 05C | Attack Time |
| 05D | Fade Level |
| 05E | Fade Time |
| 05F | Set Condition Report |
| 060 | CP Offset |
| 061 | Positive Coefficient |
| 062 | Negative Coefficient |
| 063 | Positive Saturation |
| 064 | Negative Saturation |
| 065 | Dead Band |
| 066 | Download Force Sample |
| 067 | Isoch Custom Force Enable |
| 068 | Custom Force Data Report |
| 069 | Custom Force Data |

06A Custom Force Vendor Defined Data
06B Set Custom Force Report
06C Custom Force Data Offset
06D Sample Count
06E Set Periodic Report
06F Offset
070 Magnitude
071 Phase
072 Period
073 Set Constant Force Report
074 Set Ramp Force Report
075 Ramp Start
076 Ramp End
077 Effect Operation Report
078 Effect Operation
079 Op Effect Start
07A Op Effect Start Solo
07B Op Effect Stop
07C Loop Count
07D Device Gain Report
07E Device Gain
07F PID Pool Report
080 RAM Pool Size
081 ROM Pool Size
082 ROM Effect Block Count
083 Simultaneous Effects Max
084 Pool Alignment
085 PID Pool Move Report
086 Move Source
087 Move Destination
088 Move Length
089 PID Block Load Report
08B Block Load Status
08C Block Load Success
08D Block Load Full
08E Block Load Error
08F Block Handle
090 PID Block Free Report
091 Type Specific Block Handle
092 PID State Report
094 Effect Playing
095 PID Device Control Report
096 PID Device Control
097 DC Enable Actuators
098 DC Disable Actuators
099 DC Stop All Effects
09A DC Device Reset
09B DC Device Pause
09C DC Device Continue
09F Device Paused
0A0 Actuators Enabled
0A4 Safety Switch
0A5 Actuator Override Switch
0A6 Actuator Power
0A7 Start Delay
0A8 Parameter Block Size
0A9 Device Managed Pool
0AA Shared Parameter Blocks
0AB Create New Effect Report
0AC RAM Pool Available

HUT 14 Alphanumeric Display
000 Undefined
001 Alphanumeric Display
020 Display Attributes Report
021 ASCII Character Set
022 Data Read Back
023 Font Read Back
024 Display Control Report
025 Clear Display
026 Display Enable
027 Screen Saver Delay
028 Screen Saver Enable
029 Vertical Scroll
02a Horizontal Scroll
02b Character Report
02c Display Data
02d Display Status
02e Stat Not Ready
02f Stat Ready
030 Err Not a loadable Character
031 Err Font Data Cannot Be Read
032 Cursor Position Report
033 Row
034 Column
035 Rows
036 Columns
037 Cursor Pixel Positioning
038 Cursor Mode
039 Cursor Enable
03a Cursor Blink
03b Font Report
03c Font Data
03d Character Width
03e Character Height
03f Character Spacing Horizontal
040 Character Spacing Vertical
041 Unicode Character Set

HUT 80 USB Monitor
001 Monitor Control
002 EDID Information
003 VDI Information
004 VESA Version

HUT 81 USB Monitor Enumerated Values

HUT 82 Monitor VESA Virtual Controls
001 Degauss
010 Brightness
012 Contrast
016 Red Video Gain
018 Green Video Gain
01a Blue Video Gain
01c Focus
020 Horizontal Position
022 Horizontal Size
024 Horizontal Pincushion
026 Horizontal Pincushion Balance
028 Horizontal Misconvergence
02a Horizontal Linearity
02c Horizontal Linearity Balance
030 Vertical Position
032 Vertical Size
034 Vertical Pincushion

036 Vertical Pincushion Balance
038 Vertical Misconvergence
03a Vertical Linearity
03c Vertical Linearity Balance
040 Parallelogram Balance (Key Distortion)
042 Trapezoidal Distortion (Key)
044 Tilt (Rotation)
046 Top Corner Distortion Control
048 Top Corner Distortion Balance
04a Bottom Corner Distortion Control
04c Bottom Corner Distortion Balance
056 Horizontal Moire
058 Vertical Moire
05e Input Level Select
060 Input Source Select
06c Red Video Black Level
06e Green Video Black Level
070 Blue Video Black Level
0a2 Auto Size Center
0a4 Polarity Horizontal Synchronization
0a6 Polarity Vertical Synchronization
0aa Screen Orientation
0ac Horizontal Frequency in Hz
0ae Vertical Frequency in 0.1 Hz
0b0 Settings
0ca On Screen Display (OSD)
0d4 Stereo Mode
HUT 84 Power Pages
HUT 85 Power Pages
HUT 86 Power Pages
HUT 87 Power Pages
HUT 8c Bar Code Scanner Page (POS)
HUT 8d Scale Page (POS)
HUT 90 Camera Control Page
HUT 91 Arcade Control Page
HUT ff Vendor Specific

List of Languages

Syntax:

L language_id language_name
dialect_id dialect_name

L 0001 Arabic
01 Saudi Arabia
02 Iraq
03 Egypt
04 Libya
05 Algeria
06 Morocco
07 Tunisia
08 Oman
09 Yemen
0a Syria
0b Jordan
0c Lebanon
0d Kuwait
0e U.A.E
0f Bahrain
10 Qatar
L 0002 Bulgarian

L 0003 Catalan
L 0004 Chinese
 01 Traditional
 02 Simplified
 03 Hongkong SAR, PRC
 04 Singapore
 05 Macau SAR
L 0005 Czech
L 0006 Danish
L 0007 German
 01 German
 02 Swiss
 03 Austrian
 04 Luxembourg
 05 Liechtenstein
L 0008 Greek
L 0009 English
 01 US
 02 UK
 03 Australian
 04 Canadian
 05 New Zealand
 06 Ireland
 07 South Africa
 08 Jamaica
 09 Carribean
 0a Belize
 0b Trinidad
 0c Zimbabwe
 0d Philippines
L 000a Spanish
 01 Castilian
 02 Mexican
 03 Modern
 04 Guatemala
 05 Costa Rica
 06 Panama
 07 Dominican Republic
 08 Venezuela
 09 Colombia
 0a Peru
 0b Argentina
 0c Ecuador
 0d Chile
 0e Uruguay
 0f Paraguay
 10 Bolivia
 11 El Salvador
 12 Honduras
 13 Nicaragua
 14 Puerto Rico
L 000b Finnish
L 000c French
 01 French
 02 Belgian
 03 Canadian
 04 Swiss
 05 Luxembourg
 06 Monaco
L 000d Hebrew
L 000e Hungarian

L 000f Idelandic
L 0010 Italian
 01 Italian
 02 Swiss
L 0011 Japanese
L 0012 Korean
 01 Korean
L 0013 Dutch
 01 Dutch
 02 Belgian
L 0014 Norwegian
 01 Bokmal
 02 Nynorsk
L 0015 Polish
L 0016 Portuguese
 01 Portuguese
 02 Brazilian
L 0017 forgotten
L 0018 Romanian
L 0019 Russian
L 001a Serbian
 01 Croatian
 02 Latin
 03 Cyrillic
L 001b Slovak
L 001c Albanian
L 001d Swedish
 01 Swedish
 02 Finland
L 001e Thai
L 001f Turkish
L 0020 Urdu
 01 Pakistan
 02 India
L 0021 Indonesian
L 0022 Ukrainian
L 0023 Belarusian
L 0024 Slovenian
L 0025 Estonian
L 0026 Latvian
L 0027 Lithuanian
 01 Lithuanian
L 0028 forgotten
L 0029 Farsi
L 002a Vietnamese
L 002b Armenian
L 002c Azeri
 01 Cyrillic
 02 Latin
L 002d Basque
L 002e forgotten
L 002f Macedonian
L 0036 Afrikaans
L 0037 Georgian
L 0038 Faeroese
L 0039 Hindi
L 003e Malay
 01 Malaysia
 02 Brunei Darassalam
L 003f Kazak
L 0041 Awahili

L 0043 Uzbek
01 Latin
02 Cyrillic
L 0044 Tatar
L 0045 Bengali
L 0046 Punjabi
L 0047 Gujarati
L 0048 Oriya
L 0049 Tamil
L 004a Telugu
L 004b Kannada
L 004c Malayalam
L 004d Assamese
L 004e Marathi
L 004f Sanskrit
L 0057 Konkani
L 0058 Manipuri
L 0059 Sindhi
L 0060 Kashmiri
02 India
L 0061 Nepali
02 India