

Overview for ThinkStation Front 29 in 1 Media Card Reader (4XH0H04229)

ThinkStation Front 29-in-1 Media card reader is fully compatible with ThinkStation Systems (P500, P700, P900).

ELECTRICAL SPECIFICATIONS

Controller: RTS5301

- Compliant with Universal Serial Bus 3.0 Specification Revision 1.0
- Compliant with USB Mass Storage Class Bulk only Transport Specification Rev. 1.0
- Compliant with SD Part 1 Physical Layer Specification Version 3.01
- Compliant with MultiMediaCard System Specification version 4.4
- Compliant with Memory Stick XC Duo Format Specification Version 1.00-00
- Compliant with Memory Stick XC-HG Duo Format Specification Version 1.00-00
- Compliant with Memory Stick XC Micro Format Specification Version 1.00-00
- Compliant with Memory Stick XC-HG Micro Format Specification Version 1.00-00
- Compliant with Memory Stick PRO-HG Duo Format Specification Version 1.03-00
- Compliant with Memory Stick HG Micro Format Specification Version 1.00-00
- Compliant with Memory Stick PRO Standard Format Specification Version 1.05-00
- Compliant with Memory Stick Standard Format Specification Version 1.43
- Compliant with xD-Picture Card Specifications Version 1.2
- Compliant with SmartMedia Card Specification Version 2003
- Compliant with CompactFlash Card Version 5.0
- Support Super-speed(5Gpbs),High-speed (480Mbps) and Full-speed (12Mbps) Data Transfer
- USB bus power operation
- Support USB2.0 LPM/USB3.0 U1/U2/U3 power saving mode
- Support Control, Bulk IN / OUT data pipes

- Support the following memory card interfaces:
 - CompactFlash™ (CF), MicroDrive
 - SmartMedia™ (SM)
 - Secure Digital™ (SD),
 - MultiMediaCard™ (MMC),
 - Mini-SD,
 - Micro-SD (T-flash),
 - SDHC,
 - SDXC,
 - RS-MMC,
 - Mobile-MMC,
 - MMC-micro,
 - Memory Stick™ (MS),
 - Memory Stick PRO™ (MS-PRO),
 - MS Duo,
 - MS-PRO Duo,
 - Micro-MS (M2),
 - MSPRO-HG Duo 8-bit mode,
 - xD-Picture Card™ (xD) including Type M, Type M+ and Type H

- Support CF Card with PIO mode 6 and Ultra DMA mode
- Both 2 SD LUNs (Default Lun 3rd and 5th) support SD3.0 UHS-50 (SDR50/DDR50 mode)
- Built-in variable sampling clock generator to determine correct sampling point for SD UHS card.
- Both 2 SD LUNs (Default Lun 3rd and 5th) support SDXC card up to 2TB
- Both 2 MS LUNs (Default Lun 4th and 5th) support MSXC card up to 2TB
- Support MSXC Power Class 0,1 and 2
- Support Memory Stick Pro MagicGate function
- Support Memory Stick Pro MS Formatter function
- Support SD CPRM function
- Support hardware ECC (Error Correction Code) function
- Support hardware CRC (Cyclic Redundancy Check) function
- Programmable clock rate for flash memory card interfaces
- Integrated Fast 8051 microprocessor
- External Serial Flash memory interface
- On chip MOSFET components for direct power control of all types memory cards
- Support Spread Spectrum Clock for SD/MMC and MS/MSPRO/HG to reduce EMI effect

PHYSICAL SPECIFICATIONS

Un-packaged

- Approximate length: 92 mm (3.6 in) cardreader+ 760 mm(29.9 in) single cable
- Approximate width: 60 mm (2.3 in)
- Approximate height:21 mm (0.8 in)
- Weight: 88g(0.19 lb)

Packaged

- Approximate length: 177 mm (7.0 in)
- Approximate width: 144 mm (5.7 in)
- Approximate height: 53 mm (2.1 in)
- Weight: 200g (0.44 lb)

OPERATING ENVIRONMENT

Operating Temperature:

0 °C to 70 °C

Storage Temperature:

- 40 °C to 85 °C

Humidity:

10%~90%

AGENCY APPROVALS

- European Union: CE
- Japan: VCCI
- Ukraine: Ukraine EMC DoC

PACKAGING:

BrownBox Packaging

SHIPMENT GROUP

- ThinkStation Front 29 in 1 Media card reader
- Cardreader front cover kit
- Cardreader PCB holder
- Warranty poster

WARRANTY TERMS

- 1 year warranty

CHARGES - FRU PARTS

Field Replaceable Units (FRU)

Description	FRU Part #	Option Part #	H S
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ThinkStation Front 29 in 1 Media card reader	03T6791	4XH0H04229	R1
Cardreader front cover kit	04X2393	4XH0H04229	R1
Cardreader PCB holder	00KT081	4XH0H04229	R1