



microUCS User Manual

Hardware Version: V1.2

Guide Version: V1.0

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Compliance information

EMI and EMS

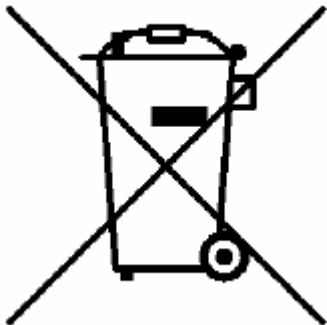
For FCC, MICROUCS has been tested as a CPU board, installed in an enclosure, with the top cover removed. No further testing should be required if the board is used with other FCC tested modular components. Please see <http://www.fcc.gov/oet/> for more details.

Testing for CE mark must be done at the level of the complete product. Please contact PaloSanto Solutions for assistance and documentation. It can be used as an I.T.E, as well as a generic device. For an I.T.E, it must be tested according to EN55022 and EN55024; for a generic device, it is suit for EN 61000-6-2 (EMI test for commercial and light industrial environment) and EN61000-6-3 (Immuty test for Industrial environment).

ESD

For satisfactory resistance to electrostatic discharge events (ESD), the case of the MICROUCS board should be grounded earth Ground terminal. (eg. through the mounting holes, or the serial port connector). Under this condition, the system can be get class B evaluation according to EN 61000-4-2.

Recycling / disposal



Do not discard electronic products in household trash!

All waste electronics equipment should be recycled according to local regulations.

Information for the recycler

Please cut off Lithium battery, if present, for separate recycling.

PaloSanto Solutions enclosures are made of aluminum.

Chapter 1 Overview

The microUCS is the ideal IP PBX for small business or for your home, allowing you to monitor your communications in a very small but also powerful device that comes pre-installed with Elastix.

A micro computer with a powerful solution, The compact design of microUCS together with Elastix® as a unified communications solution, makes it a powerful IP PBX that allows you to monitor communications in your office or home from anywhere. Easy to install, powerful administration as only Elastix® offers and its very low power consumption, make it a very safe and cost effective solution.

Features

- **Auto Attendants**
- **Voicemail**
- **Dial-By-Name Directory**
- **Music on Hold**
- **Multiple Languages**
- **Ring Groups**
- **Call Queue**
- **Call Waiting**
- **Caller Display**
- **Conference Call**
- **Call Hold/Transfer**
- **Call Park**
- **Call Pickup**
- **Automatic Fax Detection**
- **Remote Management**
- **Remote Extensions**

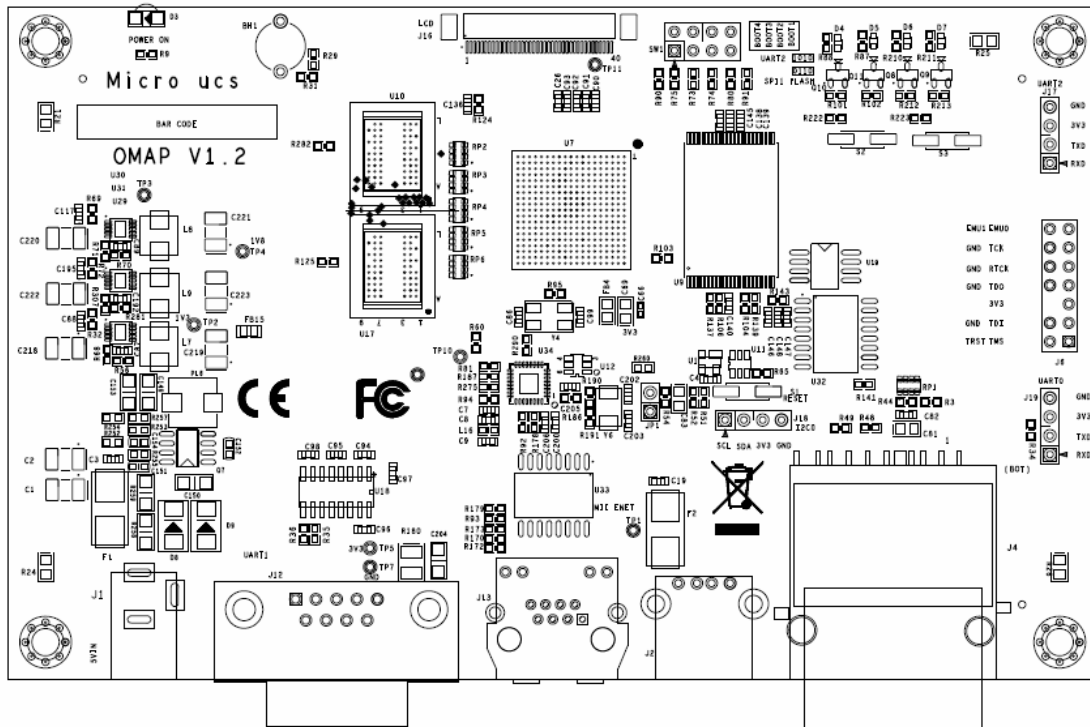
Specification

- CPU: TI AM1808B 456MHZ
- DRAM: 2 GB DDR2 SDRAM
- Storage: 1 SD Socket
- I/O: 1*DB9 serial port, 1*USB 2.0 port
- Network interface: 10/100Mbps
- Operating System: Elastix 32 bitx
- PBX size: (28.3mm x 165 mm x95.8mm)

- Temperature: 0°C to 60°C
- PCB layer: 6
- Voltage range :12V DC supply through DC jack
- Power dissipation: ~1.5W (Minimum Power Dissipation)

Chapter 2 microUCS Connector and Jumper

1. Layout



2. Connector and Jumper List

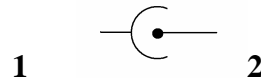
Name	Function
J1	Main Power in Jacket
J12	Serial Port (RS232)
J13	Ethernet Port
J2	USB Port
J4	SD Card interface

3. System Status Indicator

Name	Function
D3	System status indicator

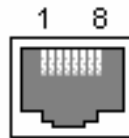
4. Connector and Jumper Description

J1 Main Power Jacket DC in @12V



Pin	Name
1	Gnd
2	Vin

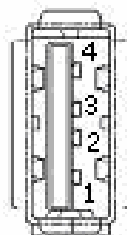
J13 100Mbps Ethernet Port



Pin	Name
1	TD+
2	TD-
3	RD+
4	-
5	-
6	RD-
7	-
8	-

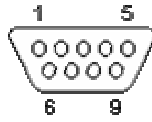
J2 USB Port

1 USB2.0 ports. 500 mA Continuous Current per Channel. Short-Circuit and Thermal Protection with Overcurrent Logic.



Pin	Name	Pin	Name
1	5v	3	Data+
2	Data-	4	Ground

J12 Serial Port (rs232)



Pin	Name
1	--
2	RXD
3	TXD
4	--
5	GND
6	--
7	--
8	--
9	--

FCC STATEMENT:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.