



Grandstream Networks, Inc.

126 Brookline Ave, 3rd Floor
Boston, MA 02215. USA
Tel : +1 (617) 566 - 9300
Fax: +1 (617) 249 - 1987

www.grandstream.com



HA100 **High Availability Kit for UCM6510**

Quick Installation Guide

For Warranty and RMA information, please visit www.grandstream.com

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PRECAUTIONS:

- Do not attempt to open, disassemble, or modify the device.
- Do not use a third party power adapter.
- Do not expose this device to temperatures outside the range of 0 °C to +40 °C for operating or -10 °C to +60 °C for storage.
- Do not expose this device to environment outside of the following humidity range: 10-90% RH (non-condensing).

OVERVIEW

HA100 works with UCM6510 to achieve High Availability function. It contains a set of external ports and splits each of them into two internal ports: Port A and Port B. The ports on the 2 UCM6510s should be connected to each Port A and Port B respectively. The external ports on the HA100 provide PBX service. Powered by an advanced hardware platform and revolutionary software functionality, the connection between the UCM6510 and HA100 offers a breakthrough turnkey solution for converged voice, video, data, fax, security surveillance, and mobility applications out of the box without any extra license fees or recurring costs.

PACKAGE CONTENTS



1 x HA100 Main Case



1 x Quick Installation Guide



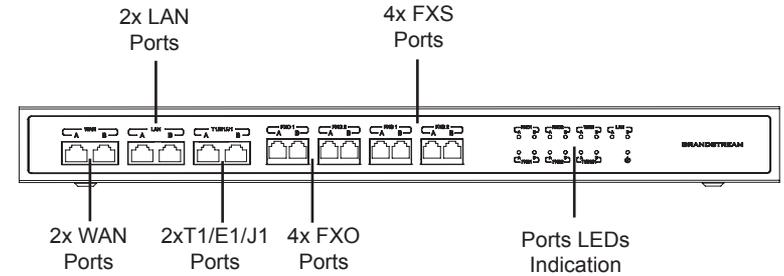
1 x 12V Power Adapter



2 x USB-to-RS485 Cable

HA100 INTERFACES

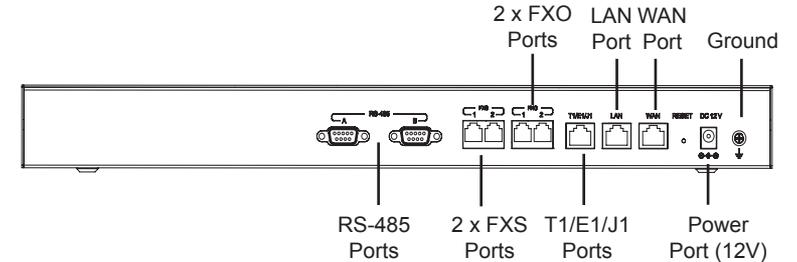
HA100 Front Panel



The front panel contains the internal HA100 ports:

- 1 pair of internal WAN ports (WAN-A, WAN-B).
- 1 pair of LAN ports (LAN-A, LAN-B).
- 1 pair of T1/E1/J1 ports (T1/E1/J1-A, T1/E1/J1-B).
- 2 pairs of internal FXS ports (FXS 1-A, FXS 1-B, FXS 2-A, FXS 2-B).
- 2 pairs of internal FXO ports (FXO 1-A, FXO 1-B, FXO 2-A, FXO 2-B).

HA100 Back Panel



The back panel contains the external HA100 ports:

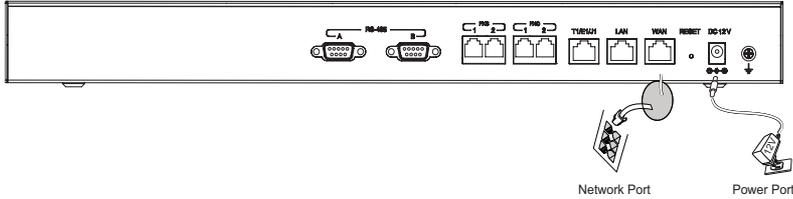
- 2 FXS ports.
- 2 FXO ports.
- 1 WAN port.
- 1 LAN port.
- 1 T1/E1/J1 port.
- 2 RS-485 Ports.
- 1 Power Port 12V.
- Reset Pin.
- Ground.

HA100 CONNECTION

Powering and Connecting the HA100

Please refer to following steps for the basic connection setup of the HA100:

1. Connect one end of the Ethernet cable to the WAN port of the HA100 and the other end to the RJ45 port of uplink of a hub or switch.
2. Connect 12V power adapter to the 12V power port on HA100 and the other end to power jack.



Optional Connection

1. **For PSTN connection:** Connect a PSTN cable to the FXO external port on HA100.
2. **For Analog phone/Fax connection:** Connect analog phone or FAX machine to the FXS external port on HA100.
3. **For T1/E1/J1 connection:** Connect T1/E1/J1 cable from the service provider side to the T1/E1/J1 external port on HA100.
4. **For LAN connection:** Connect one end of the Ethernet cable to the LAN external port on HA100 and the other end to switch, hub or etc.

CONNECTING HA100 WITH 2 UCM6510

The following steps and diagram illustrate the connection between the HA100 and 2 UCM6510:

1. Connect the FXO port, FXS port, E1/T1/J1 port, WAN port and LAN port on UCM6510 A to the FXO-A port, FXS-A port, E1/T1/J1-A port, WAN-A port and LAN-A port on HA100.
2. Use the USB-to-RS485 serial cable to connect UCM6510 A's USB port to the RS485-A port on HA100.
3. Connect the FXO port, FXS port, E1/T1/J1 port, WAN port and LAN port on UCM6510 B to the FXO-B port, FXS-B port, E1/T1/J1-B port, WAN-B port and LAN-B port on HA100.
4. Use the USB-to-RS485 serial cable to connect UCM6510 B's USB port to the RS485-B port on HA100.

In this scenario, the HA100 separates the external port into the corresponding internal ports (A and B). By default, Port A is always connected, and Port B is always disconnected. Only one UCM device is connected at any given time. If the primary UCM (UCM6510 A) detects issues within itself, it will signal the HA100 via USB-to-RS485 cable to switch connection from Port A to Port B. The backup UCM (UCM6510 B) will then be successfully connected and resume service. Please refer to following diagram for more details.

