

IP MASTER STATION KIT

PCB



when communication is critical

FEATURES

- Master station PCB made for Critical Communication over IP (CCoIP®) in custom made station housings
- Superb audio technology – gives loud-speaking hands-free duplex communication from any location in the room
- Dual Ethernet ports for connection of other IP device
- Supports large high contrast display with white backlight for excellent readability
- Supports handset and headset
- Supports full keyboard
- Supports digital inputs and output via built-in relay
- Supports external audio amplifiers
- Integrated Web server for easy configuration and monitoring
- Remote automatic software update

DESCRIPTION

The STENTOFON IP Master Station Kit features the electronics board as used in STENTOFON IP master stations. It is designed to produce custom IP stations to the highest specifications and for use in the harshest of environments. Like all STENTOFON stations, this IP Master Station Kit features a superb audio quality for low- and loud speaking conversations. This is accomplished through the use of a wide-band audio codec, adaptive filters and high quality acoustic front end.

The IP Master Station Kit provides upto 1.5 W audio output. If even higher audio output is required an external power amplifier can be used. As a special function, the PCB can extract power from the Ethernet's PoE circuit and give upto 6 W power to external units. This means that the PCB can power an external power amplifier using its own PoE. The PCB has one relay output and three logical inputs. These outputs can for instance be used to control and open a door or PA interface. The operation of the outputs and inputs are programmable and controlled by the AlphaCom E exchange.

Further still, the station integrates into any AlphaCom E and upgraded AlphaCom solution, and is scalable from 2 to 1000's of stations. The station connects directly to the IP network making it easy to deploy anywhere at any distance. Designed for CCoIP®, the station offers a set of critical communication features such as integrated firewall, group call, call priority and over-ride, to name just a few. This enables the delivery of instant, efficient and secure data and voice services with superb wide-band audio quality in an IP environment.

Note! Please see Mini Manual – IP master Stations and Kit for overview of connections on the PCB.



ORDER NUMBER	DESCRIPTION	SHIP WEIGHT
1008093000	IP Master Station Kit, PCB	
1008099000	Display Kit for Master Stations, (5 displays)	

IP MASTER STATION KIT PCB

SPECIFICATIONS

Dimensions (WxHxD)	88 x 152 x 20 mm
Weight	250 g
Temperature	+5° to +45°C environment
Humidity	10 to 85%, non condensing
Mounting	Locally made housing
Power	Power over Ethernet, IEEE 802.3 a-f, Class 0 Local 19-27 VDC power Idle 4 W, max. 13 W (ext. amplifier) 6W power out to external units
Connectors: Ethernet Handset Headset Microphone Loudspeaker 24 VDC in, 1 relay out LED, 3 inputs Gooseneck microphone Display Keyboard Audio out I2C bus	2 x RJ45 10/100 Mbit/sec. RJ11 RJ11 3-pin plug (Electret, dynamic) Plugable screw terminal (1.5 W, 8 Ohm) 6-pin plugable screw terminal 6-pin plugable screw terminal 3-pin IDC (Electret) 20-pin ZIF 18-pin ZIF + solder holes (Digits 0-9 + M and C, 10 DAK, 4 softkeys, volume control, backlight control) 6-pin IDC (0 dB / 600 Ohm, 13 V power out) 6-pin mini (DAK modules, relay modules etc. +3.3 V power output)
IP protocols	IP v4 - TCP - UDP - HTTP - TFTP - RTP - RTCP - DHCP - DiffServ - TOS - STENTOFON - CCoP®
Audio technology	Wideband 200 Hz - 7 kHz (G.722), Telephony 3.4kHz (G.711) Acoustic echo cancellation Open duplex, Adaptive jitter filter 1.5 Watt audio output Volume override
Installation	Remote automatic software upgrade Centralized provisioning DHCP and static IP Integrated web server
Operation	Network supervision VoIP statistics Centralized monitoring Tone test and line monitoring Adaptive end node firewall
Advanced features	Dual port Ethernet switch Support for external PA amplifier Support for external smart PA amplifier with switching and status Support for external display modules Support for external I/O modules