Product data sheet

EST-CU-8LCD

Control Unit - 8 control slots and 4 function slots

Overview

EST–CU-8LCD Control Unit (CU) is a matrix mixer of input signals which routes to 4 x 100 V internal audio buses, a 45-channel digital system buses or directly to audio outputs in a unit.

In basic factory configuration, EST-CU-8LCD is a stand-alone system which enables only connections with DFMS and zone microphones. For networking with other CU optional xNet card is needed.

The CU is equipped with 1x EST-xCtrLine-4 card in slot 1, 1x EST-AudIO-4/8-RS card in slot A and 1x EST-LogIN-8f card in slot B. Slot C and D can extend control unit audio dsp abilities up to 24 audio outputs / 12 audio inputs. Slots from 2 to 7 are free for any cards assignment (EST-xCtrLine-2/4 and EST-xLogIN/OUT).

Furthermore, EST-CU-8LCD is equipped with an LCD touch screen with a control module, which allows easy access to management functions and monitoring of the whole system.



Details

- Network-based system allowing configuration, diagnostics and management via Ethernet
- Managing up to 254 devices on the network
- 7 slots available for any configuration of loudspeaker control cards, control input and output cards
- Additional 2 slots designated for audio input/output cards and control input / output cards
- Up to 8 messages played simultaneously in different zones
- Up to 32GB SD flash memory designated for playback and recording messages (48 kHz, 16 bit)
- Support of up to 12 secured amplifiers
- Integrated DSP with implemented 3 band parametric EQ on all inputs on control units, 8 band parametric EQ, delay lines, audio limiter and feedback eliminator on each of the audio outputs
- Comprehensive solution based on RS485 functionality enabling seamless integration of the EST ENT VES system with 3rd party systems thanks to implementation of standard and proprietary communication interfaces

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Technical specifications

Eléctrico

Consumo de corriente	Up to 60 W (depends on configuration)

Físico

Dimensiones físicas	482 x 85 × 325 mm (W x H x D)
Peso neto	Up to 8 kg (depends on configuration)
Tipo de montaje	Bastidor de 19"

Medioambiental

Temperatura de funcionamiento	0°C to +60°C
Temperatura de almacenamiento	-20°C to +70°C

Estándares y regulaciones

Normativas	EN54-16

Electrical

Power supply	48 VDC (operating range 40-57 VDC) connector with screw terminals M2.5, the distance between the partitions of 5.08 mm

Physical

Number of slots for function modules	4
Number of slots for control modules	8
Messages	Supported SD card up to 32 GB. The set includes 512 MB SLC SDHC cards which provides more than 20 min of the messages
LCD display	4,5” LCD touch screen
Communication with PC	PC software: RJ45 connector twisted pair connection TIA/EIA 568-B by the Ethernet protocol
DSP	Implemented 3 band parametric EQ on all inputs on control units, 8 band parametric EQ, audio limiter, feedback eliminator and delay lines on each of the audio output
Available communication protocols	Modbus, SMS
Fiber module – connector type / kind of fiber	Modules type SFC / Connector SC / LC / Multimode or single-mode / E 30 or E 90, OM or OM2
Finish case material	Steel.The front panel is made of metal plate painted black
Accessories	2 brackets and 4 screws for rack mounting, 9 caps for free slots, 48 VDC power and 100 V buses connectors

Environmental

Operating humidity	15% to 80% non-condensing
Storage humidity	15% to 80% non-condensing

Data communication

Available card on the front panel	
Option A	100BASE-TX / RJ45 for configuration C and system extension by EST-DFMS, DMS, DMS-LCD
Optional card on the rear panel	
Option A	11000BASE-X on the fiber 2 SFP ports provide a redundant connection
Option B	1000BASE-TX / RJ45 CAT5E cables – 2 ports including 1 port with POE
Option C	100BASE-TX / RJ45 CAT5 cables – LAN/WAN for PC connection

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