



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
- Optional equipment: EST-xNET-1Gb/WAN/RS for optical fiber redundant connection
- 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

Electrical

| | |
|-------------------|--|
| Power consumption | Up to 60 W (depends on configuration) |
| 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

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|---|---|
| Physical dimensions | 482 x 85 x 325 mm (W x H x D) |
| Net weight | Up to 8 kg (depends on configuration) |
| Type of mount | 19" rack |
| 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

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|-----------------------|---------------------------|
| Operating temperature | 0°C to +60°C |
| Storage temperature | -20°C to +70°C |
| Operating humidity | 15% to 80% non-condensing |
| Storage humidity | 15% to 80% non-condensing |

Standards & regulation

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| Standards | EN54-16 |
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Data communication

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| 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 |

