

Control Unit

EN 54-16

EN 54-4

1438-CPR-0948

SMART-CU-8LCD



SMART-CU-8LCD Control Unit (CU) is a matrix mixer of the input signals which routes signals to four 100V internal audio buses, a 48-channel digital system buses or directly to audio outputs in a unit.

Additional, it is equipped with the unique feature – dual (redundant) processor card (2x ABT-xCPU). SMART-CU-8LCD is prepared to serve the role of the main controller of the smartVES system and it has a master function with regard to the remaining devices.

CU is equipped with the slots on the rear panel for connecting four input modules, output audio modules or logic modules: ABTxAudIO-4/8-RS, ABTxAudIO-8, ABT-xLogIN-8f, ABT-xLogOUT-8f and up to 8 modules of loudspeaker line control or logical inputs / outputs: ABT-xCtrlLine-4 (ABT-xCtrlLine-2), ABT-xLogIN-8c, ABT-xLogOUT-8c.

LCD colour and touch display gives a direct access to the managerial function and

monitoring of the whole system. SMART-CU-8LCD is a matrix mixer of the input signals which routes such signals

to four 100 V internal audio buses, a 48-channel digital system buses or directly to audio outputs in a unit.

CHARACTERISTICS

- » **EN 54-16 // 1438-CPR-0948 certified system**
- » **Fully network-based system allowing for configuration, control and diagnostics via Ethernet**
- » **A possibility of managing up to 254 devices in the network**
- » **8 slots available for any configuration of loudspeaker control cards, control inputs and outputs cards**
- » **Additional 4 slots dedicated only for audio input/output cards and control input/output cards**
- » **Built in 2 control inputs and outputs**
- » **Up to 12 secured amplifiers supported**
- » **8 messages played simultaneously into different zones**
- » **2x1Gbit ports available for system extension**
- » **1x POE port Up to 32 GB SD flash memory dedicated for playback and recording messages (48 kHz, 16 bit)**
- » **DSP implemented on each ABT-xAudIO-4/8-RS card with 3 band parametric EQ on 4 inputs, 8 band parametric EQ, delay lines, audio limiter and feedback eliminator on each of the audio outputs**
- » **SMS protocol allows smartVES system integration with other producers devices**

	SMART-CU-8LCD
Power supply	48 V DC (operating range 40-57 V DC) connector with screw terminals M2.5, the distance between the partitions of 5.08mm
Power consumption	Up to 60 W (depends on configuration)
Number of slots for function modules	4
Number of slots for control modules	8
Messages	Supported SD HC up to 32 GB The set included 512 MB SLC SDHC cards provide more than 20 minutes of messages
LCD display	4,5" LCD touch screen
DSP	Implemented 3 band parametric EQ on all inputs on control units, 16 band parametric EQ and Delay lines on each of the audio output
Data communication	Communication between devices over large distances: › 1000BASE-X on the fiber › 2 ports provide a redundant connection Communication between devices installed side by side: › 1000BASE-TX / RJ45 CAT5E cables after – 2 ports available on the back panel. › 100BASE-TX / RJ45 CAT5 cables after – 1 port available on the rear panel for connection to an external network (see notes) › 100BASE-TX / RJ45 CAT5 cables after – 1 port available on the front panel (the main processor card) for connection to an external network
Fiber module – connector type / kind of fiber	Modules type SFC / Connector SC / LC / Multimode or single-mode / E 30 or E 90, OM lub OM2
Communication with PC	PC software: RJ45 connector twisted pair connection TIA/EIA 568A by the Ethernet protocol
Operating temperature	-5°C / +40°C
Operating humidity	15% to 80% (non-condensing)
Storage temperature	-20°C / +70°C
Storage Humidity	15% to 80% (non-condensing)
Finish Case Material	Finish Case Material: Steel The front panel is made of metal plate painted black
Dimensions	482 (W) × 85 (H) × 325 (D) mm
Mounting	19" – rackmount
Weight	Up to 8 kg (depends on configuration)
Accessories	2 brackets and 4 screws for rack, 8 caps for free slots