

# 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), ABTxLogIN-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 ABTxAudio-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**

| <b>SMART-CU-8LCD</b>                          |   |
|---|---|
| <b>Electrical</b>                             |   |
| 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<br>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                            | <ul style="list-style-type: none"> <li>Communication between devices over large distances:               <ul style="list-style-type: none"> <li>› 1000BASE-X on the fiber</li> <li>› 2 ports provide a redundant connection</li> </ul> </li> <li>Communication between devices installed side by side:               <ul style="list-style-type: none"> <li>› 1000BASE-TX / RJ45 CAT5E cables after – 2 ports available on the back panel</li> <li>› 100BASE-TX / RJ45 CAT5 cables after – 1 port available on the rear panel for connection to an external network (see notes)</li> <li>› 100BASE-TX / RJ45 CAT5 cables after – 1 port available on the front panel (the main processor card) for connection to an external network</li> </ul> </li> </ul> |
| 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   |
| <b>Environmental</b>                          |   |
| 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)   |
| <b>Mechanical</b>                             |   |
| Finish Case Material                          | Finish Case Material: Steel<br>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)   |
| <b>Accessories</b>                            |   |
| Accessories                                   | 2 brackets and 4 screws for rack, 8 caps for free slots   |