

# Exchangeable Modules

EN 54-16

## ABT-xCPU CPU CARD



The card integrates ABT-CU8 and ABT-CU8LCD Control Units with other elements of the smartVES system. CPU controls the whole network traffic and manages audio routing, digital matrix (8x8) as well as all DSP functions. ABT-xCPU enables remote access to the configuration parameters of each element of the system.

## ABT-xAudi-8 8-AUDIO INPUT EXTENSION CARD



This audio input extension card is designed for a function slot in ABT-CU-8/LCD Control Unit. It offers 8 symmetrical line audio inputs via a Phoenix-type connector.

## ABT-xAudio-4/8-RS 4 AUDIO INPUT / 8 AUDIO OUTPUT CARD



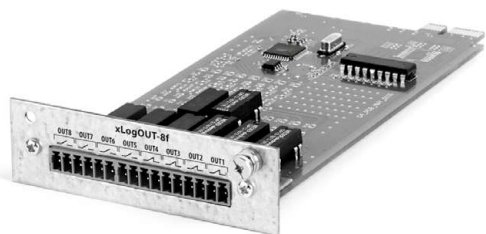
This audio input/output card is designed for a function slot of ABT-CU-8/LCD Control Unit. It offers 4 line audio inputs (via an RJ45 connector) and 8 symmetrical outputs to lead audio signals out via RJ45 connectors to external devices or amplifiers of the smartVES system. The card is also equipped with an RS485 interface through which the smartVES system can be controlled or integrated with devices offered by other producers.

## ABT-xNET-1Gb/WAN/RS COMMUNICATION CARD



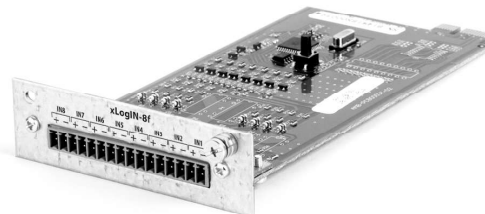
ABT-xNET is a communication card, which offers two independent 1 GB network switches; switch no 1 is designed solely for data transmission in connection with the base functionality of the smartVES system i.e. operations of the emergency sound system and AVB whereas switch no 2 is used for remote connections. This card operates under TCP/UDP/PTP/DHCP protocols and assures CPU-OFF based audio data exchange by means of a protocol developed by Ambient System. Furthermore, the card has an RS485 port enabling seamless integration of the smartVES system with any other systems (e.g. FAS) by means of exchangeable libraries with protocol descriptions. The card also includes POE splitter functionality to provide power to fireman microphones among others.

**ABT-xLogOUT-8f / ABT-xLogOUT-8c**  
LOGICAL OUTPUT CARD FOR FUNCTION / CONTROL SLOTS



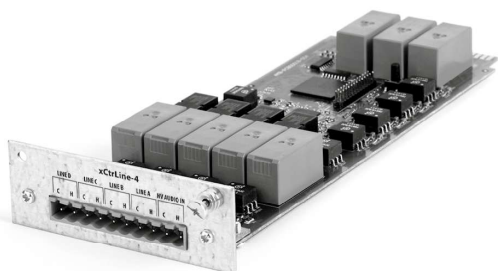
The logical output card has 8 relays i.e. 4 × normally-closed (NC) and 4 × normally-open (NO). All of them are fully programmable in terms of NC/NO functioning as well as function correlation.

**ABT-xLogIN-8f / ABT-xLogIN-8c**  
LOGICAL INPUT CARD FOR FUNCTION / CONTROL SLOTS



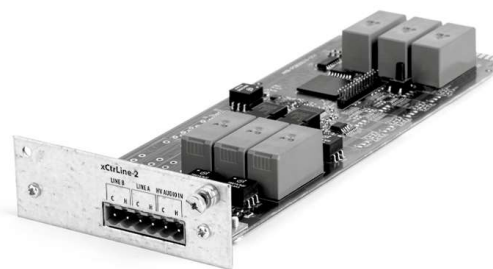
The logical input card has 8 independently-programmable control inputs which may receive signals from other systems in order to trigger a desired reaction of the smartVES system. Inputs of an ABT-xLogIN-8f card offer two modes of work i.e. a non-potential mode (short-circuited / open-circuited) and a voltage mode where the card enables monitoring of short-circuiting and open-circuiting of cables connected to inputs.

**ABT-xCtrLine-4**  
4 LOUDSPEAKER LINE CONTROL CARD



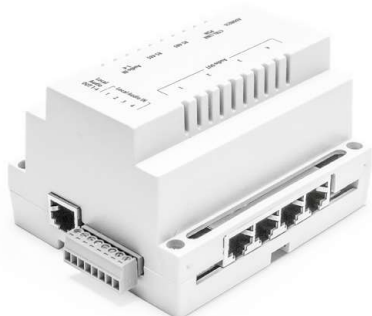
This card is designed for a control slot in every Control Unit; it offers 4 independent loudspeaker line outlets. Lines can be measured either by the impedance or loop methods. The card detects failure of the amplifier and switches the 100 V signal between internal buses and individual amplifier input on the card. Thanks to a built-in measuring component, ABT-xCtrLine-4 card monitors the status of the internal rail.

**ABT-xCtrLine-2**  
2 LOUDSPEAKER LINE CONTROL CARD



This card is designed for a control slot in every Control Unit; it offers 2 independent loudspeaker line outlets (A and B). Lines can be measured either by the impedance or loop methods. The card detects failure of the amplifier and switches the 100 V signal between internal buses and individual amplifier input on the card.

**ABT-ISLE** AUDIO INTERFACE / RS485



The ABT-ISLE is both a communication module enabling integration with external systems via RS485 protocol, and an audio signal splitter.

Address settings – Number of addresses in the range of 0-F (16 addresses).

Local AUDIOIN – 4 input channels on the 8 pin connector. For easier and faster connection of audio sources, Phoenix-type connectors can be used. LOCAL AUDIO IN jack (8 pin connector Phoenix) is bridged with LOCAL AUDIO OUT (RJ-45).

Output amplifiers – RJ-45 connector for the 4-channel amplifier. // Local AUDIOOUT – RJ-45 connector for input signals to the system // PSM – RJ-45 connector for the link with power manager.