

ABT-xNET-1Gb/WAN/RS

EN 54-16

Communication card



ABT-xNET is a communication card consists of two independent 1 Gb network switches. Network switch no. 1 is destined solely for transition of data connected with the basic functionality of the MULTIVES system, i.e. working of the emergency sound system and AVB operation, whereas network

switch no. 2 is used for remote connections. This card operates TCP/UDP/PTP/DHCP protocols and assures CPU-OFF based audio data exchange by means of a protocol developed by Ambient System. In addition the card has an RS485 port enabling implementation and

integration of the MULTIVES system with any other systems, e.g. FAS, by means of exchangeable libraries with protocol descriptions. Another functionality is a POE splitter for providing power to, among others, fireman microphones.

ABT-xNET-1Gb/WAN/RS	
Power source	Internal control unit
Current consumption	48 V – 700 mA / 12 V depends on the extension / 5 V approx. 1100 mA (typical 730mA / I / O expansion / PoE – Power maximum 300 mA, typical power consumption depends on the devices connected to the card with RJ45 connector (PoE) max. 15 W
Fiber Modul	SFC modules / connector SC/LC / multimode or single-mode / E 30 lub E 90, OM lub OM2
Number of I / O logic	2 independent channels / galvanically isolated / each channel is independently configurable as input or output / outputs NO/NC
Switching current (Max.)	1 A peak*
Switching voltage (Max.)	50 V AC / DC peak*
Switching power (Max.)	30 W*
Stimulation of parametric input voltage	12 V
Source impedance force	10 kΩ
Parametric input source	Passive standard resistors 10k 10kΩ 4k99, detection thresholds 0/1 / open / set in the application configuration
Type of socket I / O logic	6-pin screw terminal type PHOENIX, 3.5 mm
PoE output voltage, nominal load	48 V, 0.3 A load
Maximum cable length for RS485	1200 m (according to. specifications and characteristics of RS485)
Operating temperature	0°C / +60°C
Operating humidity	15% to 80% (non-condensing)
Storage temperature	-20°C / +70°C
Storage humidity	15% to 80% (non-condensing)
Dimensions	70 x 160 x 30 (mm)

*Important

Any DC combination of V & A not to exceed switching power max value.
Not allowed capacitive nor inductive load, because of large inrush current / voltage spike, that can significantly exceed the maximum allowed switching current or voltage.