



ITEC NET

ITECNET SWITCH

MANUAL



Designed and Manufactured by
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Austria / Europe

 **ITEC**
itec-audio.com

Dear Customer,

ITECNET is an audio network based on the IEEE 802.3 Ethernet standards

Accordingly existing network structures and all common components such as network switches can be used.

What is the reason for a dedicated ITECNET switch? The aim of this development was to provide the user the opportunity to build an entire network with components of the same reliability, durability and robustness. The availability of identical components and spare parts for network switches and all other ITECNET devices has to be made possible through many years. Only herewith we are able to fulfill the requirements of the certification according to EN 54-16 at any time.

Please observe before installation and usage all information in this manual, especially the safety instructions.

Your ITEC acoustics team

Features

- 2 separate units, each with 4 copper and 1 optical port in one device
- Compliant with IEEE 802.3u 100Base-TX, 100Base-FX standard
- Compliant with IEEE 802.3 10Base (not relevant for ITECNET)
- SC - Fiber Optic Connectors
- VLAN configuration (in preparation)
- Supply with 24 VDC or 230 VAC mains unit
- For 19" installations

Safety instructions

During the installation of the equipment the local connection conditions, the required safety measures and all relevant standards have to be observed.

The installation and configuration of the ITECNET switch must be performed by trained personnel only. The power connection is carried out via the original power supply unit or directly to any existing 24V DC power supply (emergency supply).

The power supply is equipped on the primary side with a rubber connector and attached to the national standard mains AC socket outlet (115 - 230 volts) via an appropriate cable.

When installed in switch cabinets provision shall be made to ensure sufficient air exchange to avoid any overheating of the device.

Only a connection to networks which are compliant to IEEE 802.3 (Ethernet) may be performed.

Never try to open the device by force or by unscrewing. It does not contain parts that can be repaired by amateurs. Please contact the manufacturer or a distribution partner.

Do not apply temperatures above 50 °C, humidity larger than 95% or rain to the device.

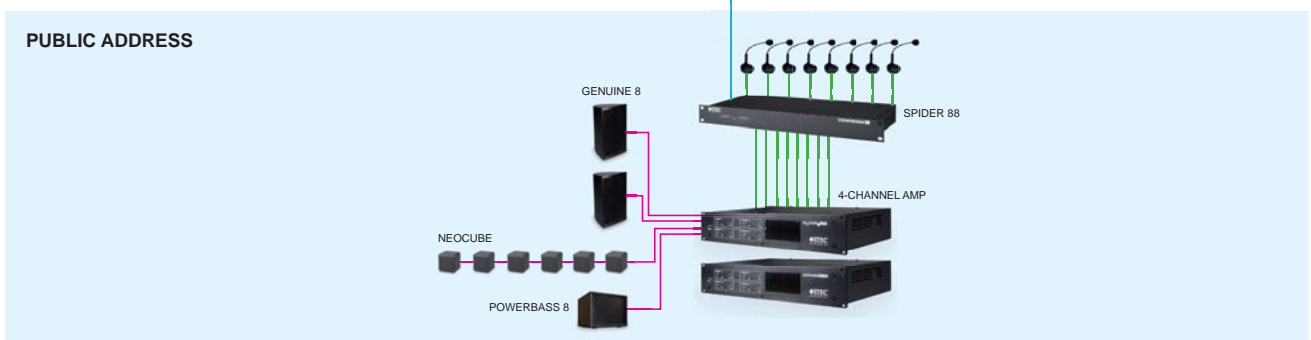
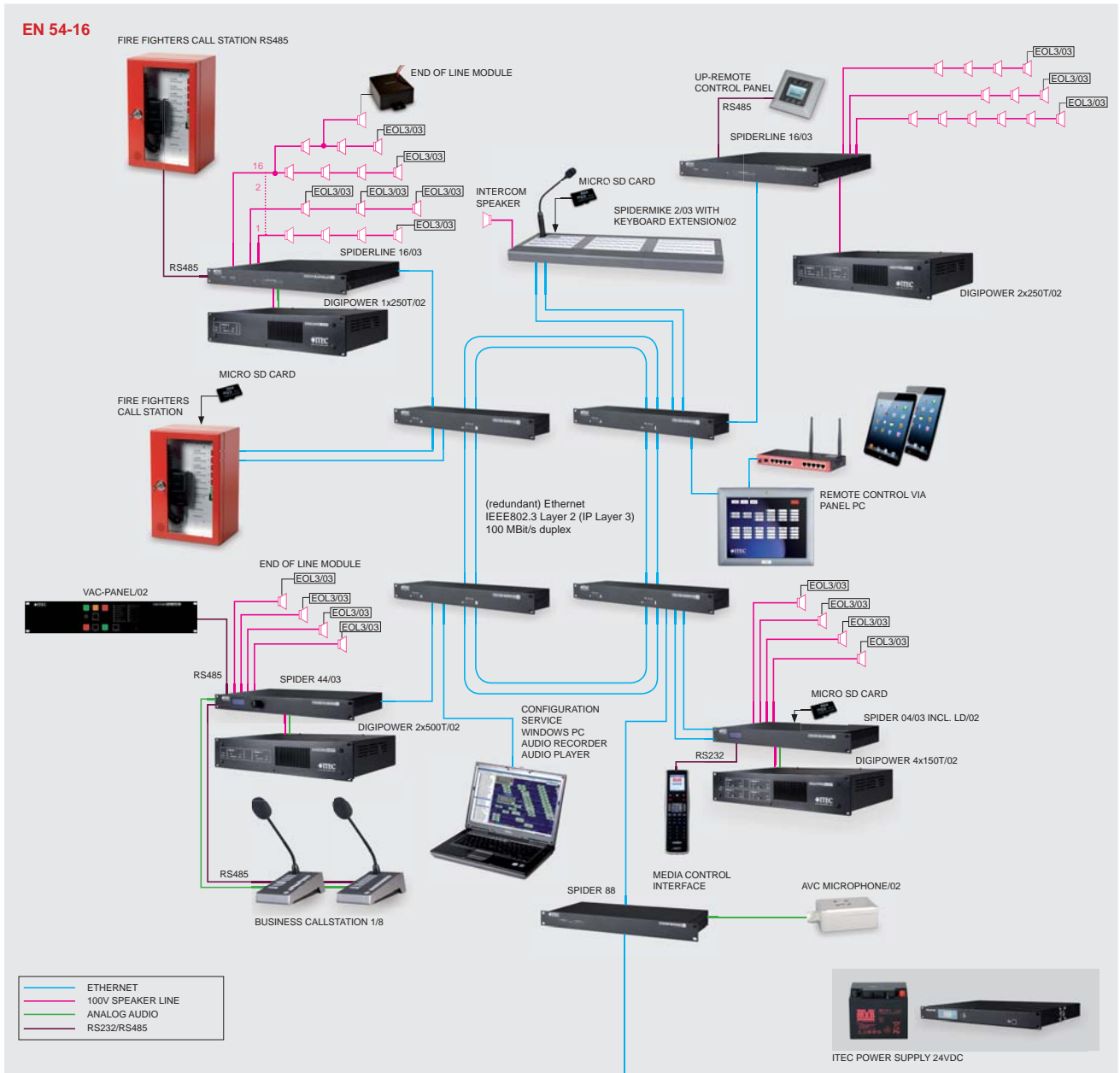
The device is designed for installations in 19" cabinets / racks / frame / housing. Improper installations in furniture, cabinets or distribution systems as well as a free putting have to be avoided.

NOTE:

Before carrying out any modifications of the device by a specialist, the device has to be disconnected from the mains supply

The audio network ITECNET

ITECNET is a decentralized, Ethernet-based audio network for the simultaneous transmission of up to 64 audio channels with the highest audio quality. At the same time, a huge number of system data, measurement data and IOs are controlled and transmitted. The ITECNET switch ensures together with the other ITECNET components an optimal performance of the overall system.



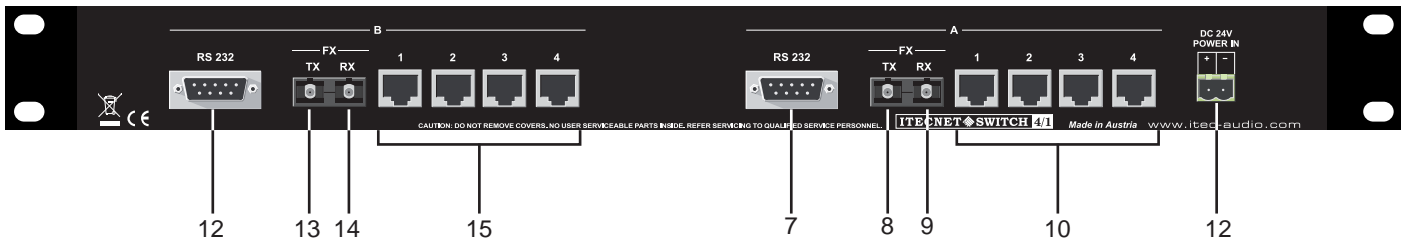
Display elements on the front-panel



- 1 Power Indicator Block A
- 2 LEDs for fiber-optic port A
- 3 LEDs for ports 1-4 A
- 4 as item 1, but for Block B
- 5 as item 2, but for Block B
- 6 as item 3, but for Block B

The LEDs for the fiber optic port and the copper ports 1-4 each have the following functions:
 The lower LED indicates via a permanent light a valid full-duplex connection to another unit.
 The top LED flashes to indicate an established 100 MBit connection to another unit.

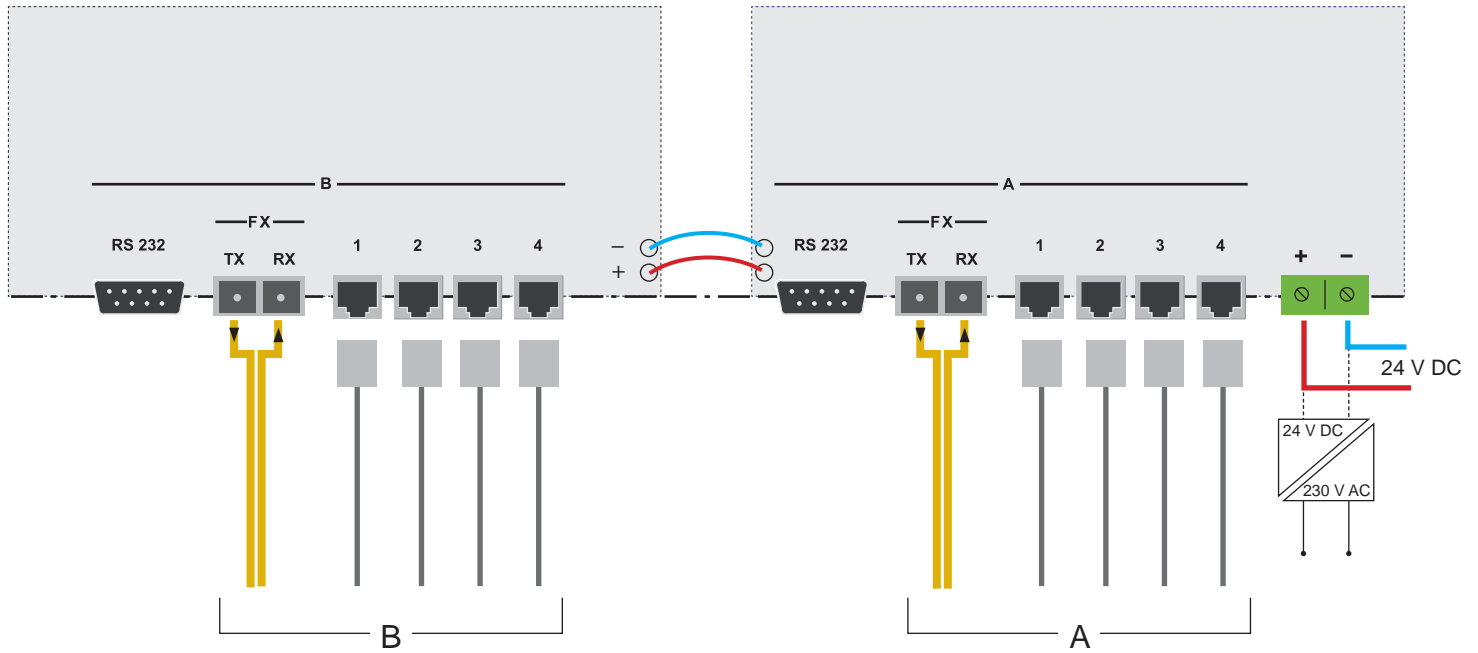
Connectors on the rear panel



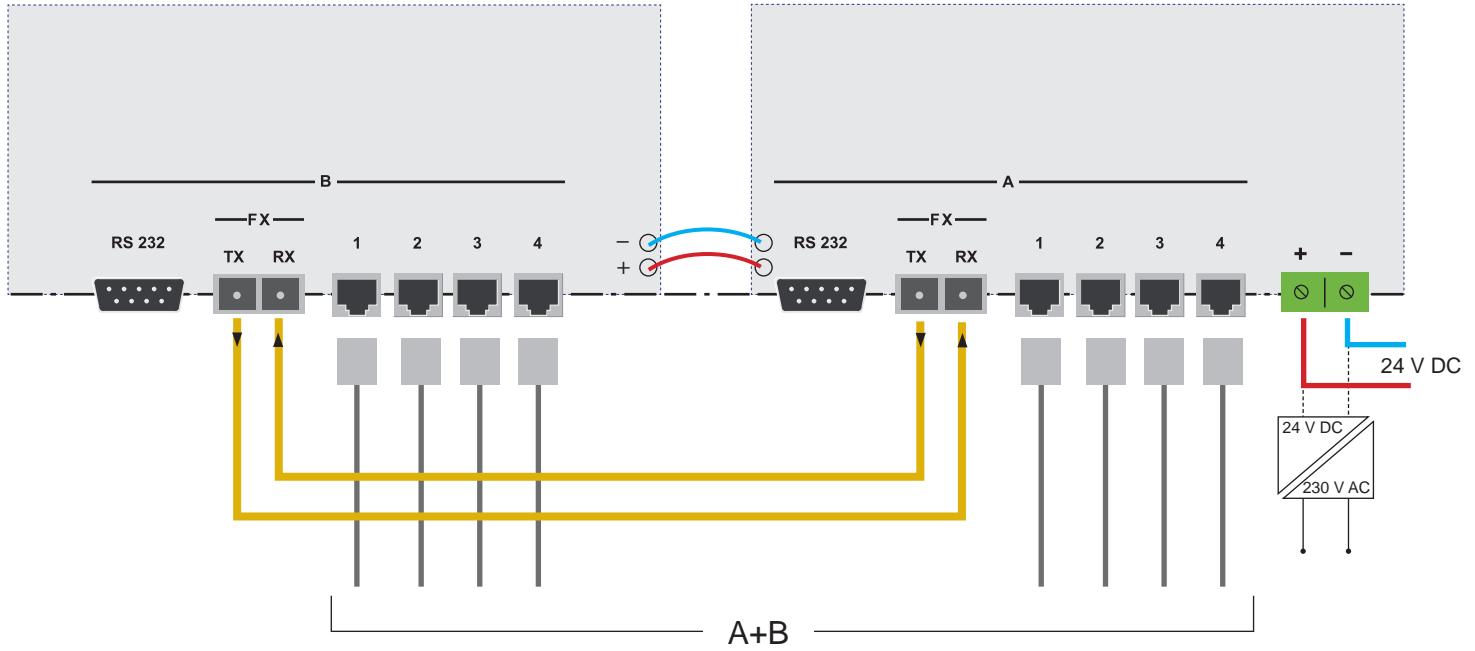
- 7 RS232 interface Block A
- 8 Fiber port Block A, TX (transmit)
- 9 Fiber port block A, RX (receive)
- 10 RJ45 connectors for copper ports 1-4 A
- 11 24V DC screw terminal
- 12 as item 7, but for Block B
- 13 as item 8, but for Block B
- 14 as item 9, but for Block B
- 15 as item 10, but for Block B

Modes

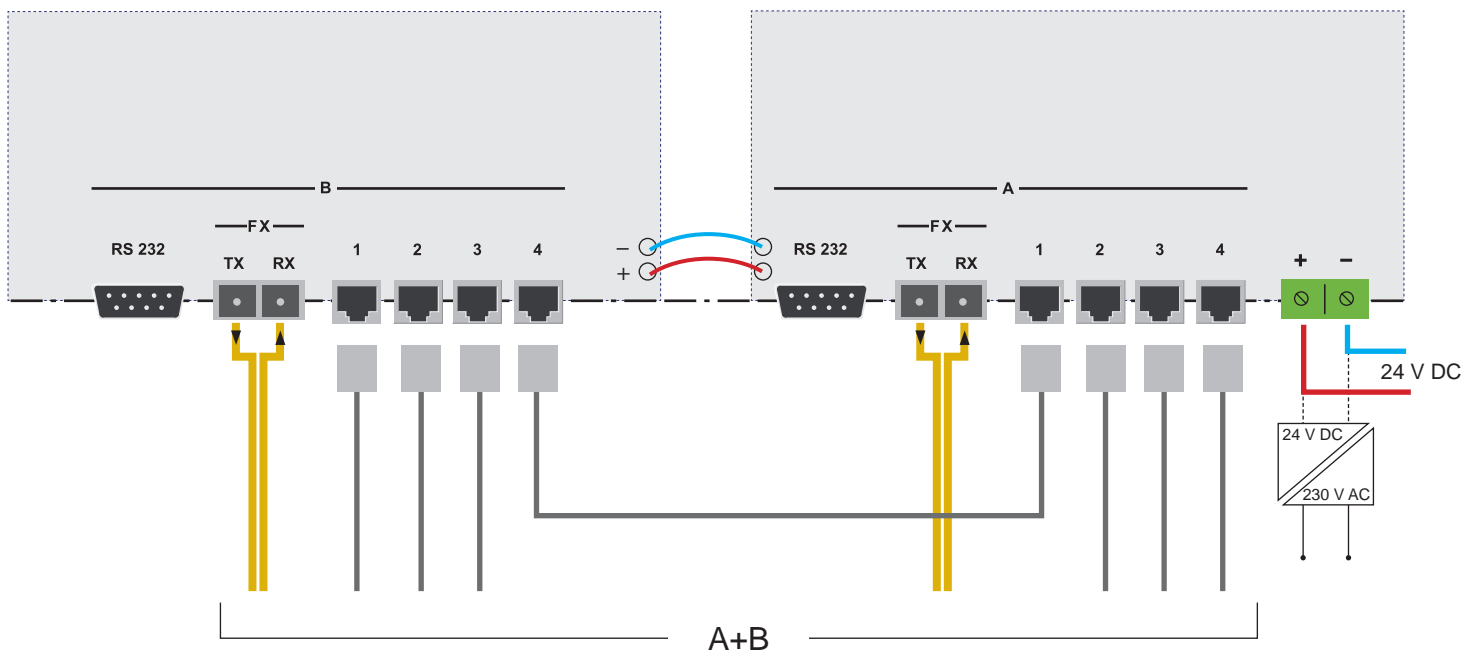
1. Two independent switches with one fiber optic port and four copper ports each



2. Connecting the two blocks with fiber optics: There are 8 copper ports available



**3. Connecting the two blocks with a copper line:
There are 2 fiber optic ports and 6 copper ports available**



ITECNET SWITCH - TECHNICAL SPECIFICATIONS



General	
Power Supply	external switching power supply or 24 VDC (18 V < V < 32 V)
Current consumption @ 24 V	160 mA in idle mode, +10 mA per active port 260 mA at full load
Operating temperature	-5° C - +40° C
Dimensions	482 mm x 44 mm x 125 mm (W x H x D), 19" / 1 RU
Weight	2.4 kg
Network	
Standard	Compliant with IEEE 802, 100Base-TX, 100Base-FX standard Compliant with IEEE 802.3 10Base (not relevant for ITECNET)
Ports	
Cooper	2 x 4 ports on RJ45 connector
Fiber optic	2 x fiber optic ports on SC connector, Wavelength: 1310 nm, Cable: MultiMode Fiber
Serial Interface	
RS232	for configuration (in preparation)

All Informations without guarantee. Subject to technical changes.



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