



Analog/VoIP - Gateway GXmS - AETI

Analogue.Emergency.Terminal.Interface

Global X-mergency System™ is a flexible and modular platform for emergency call-, information- and security systems with controlling and recognition tasks. **AETI** is a component of this system and the link between traditional systems, connected to copper leads, ethernet networks (internet, intranet) and the latest generation of communication control centres respectively (**GXmS-system**).

AETI enables switching on existing systems to VoIP LAN/WAN networks/systems and thus converting old systems infinitely to new VoIP systems (**GXmS**) and also operating in mixed mode with VoIP end devices (e.g. **MET**). An existing infrastructure can be used furtheron. Migration in the direction of VoIP-communication, stipulated or wanted by the customer, is thus possible.

AETI is a dual interface designed in the double Eurocard format and is included in the intended 19" track module **GXmS-ES19**.

Two independent communication circuits (line interfaces) with different technologies can be switched on per **AETI**.

The module has been designed for the broadest possible cover up of copper-based analogue telecommunications systems. This can, on the one hand, guarantee a multi-functional use through various software loads. On the other hand best possible versatility and adaptability to the respective physical surroundings can be achieved by adjustable hardware options, such as 2-/4- wire, phantom supply options and others.

The module is therefore applicable to systems along streets and trains as well as to links to radio and telephony systems.

Furthermore, the unit can be set up via LAN (e.g. in weatherproof boxes along traffic routes, train stations etc.)

Technical specifications

- embedded CPU, the card's central processor that monitors and navigates all functions
- operating system: embedded Linux OS
- Digital Signal Processor (DSP) that processes signals and performs functions like RTP-package generation, echo cancellation, digital TX/RX amplification/attenuation, automatically switching voice mode and also DTMF and 5-tone(ZVEI)-recognition (optional, on inquiry) and generation,
- DTMF transmitter/receiver unit
- quad Codec as AD/DA converter
- I/O unit: network interface for 10 Mbit ethernet IEEE802.3, synchronous serial interface, LED driver, saving control
- analogue amplification/attenuation unit for flexible adaptation of various input levels, programmable and therefore adjustable via the net
- amplifier unit (software configurable):
 - ± 30dB RX digital
 - ± 30dB TX digital
 - ± 32dB RX analog
 - ± 32dB TX analog
- loop detector with two current thresholds for error recognition (e.g. for recognition of defective cables)
- onboard temperature sensor
- hybrid circuit for 2-wire circuit
- overvoltage protection:
 - fine and coarse protection
- normal voltage and average power consumption:

5V	300-500mA
± 12V	2 -15mA
48V or 60V	supply
- 60V DC ac-coupled for diode matrix identification
- temperature range: - 25°C up to + 70°C
- line impedance: 600 Ohm
- line interface type: 2-/4-wire switchable
- supply: 48V/60Vexternal supply possible, phantom supply with 4-wire switchable
- DTMF transceiver: inband-/outbandmode
- mechanical dimensions: double Eurocard format

