



Voice over IP Terminal GXmS-MET

Multifunctional.Emergency.Terminal

Global X-mergency System™ is a flexible and modular platform for emergency call, information and security systems with controlling and recognition tasks. **MET** is a component of this system and is thus a universally applicable and modularly constructed end device for different uses and application areas from the simplest VoIP industrial substation (standard SIP) over loudspeaker systems (VoIP PA) up to complex emergency substations with automation devices.

MET consists of a central unit and a number of combinable modules which together provide a broad functional spectrum and thus cover customer wishes in an optimal way. Its open system architecture permits extensions and creates flexibility for new modules and new performance features.

The central processing unit is available in the following basic versions:

- As single substation with connections for headphones and/or handsfree option
- As dual substation with two independent single substations.
- As single substation (connection for headphones) and loudspeaker (amplifier connection) (blocking).
- As single substation with connections for headphones and/or handsfree option and loudspeaker (amplifier connection) (non blocking).

For switching- and controlling tasks the central processing unit can be implemented with up to 16 inputs (opto-isolated) and up to 16 outputs (contacts).

The construction of the enclosure, based on top-hat rail installation, allows an efficient and cost effective installation by simply putting together the needed modules on the hat rail.

The extremely compact style guarantees a way of installing the electronic system in nearly all standard enclosures.

Latest technologies and a sophisticated operating system ensure easy maintenance:

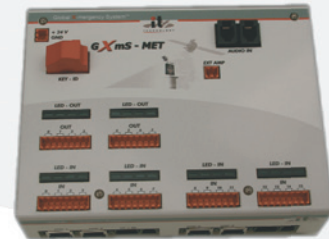
- Configuration could be done very comfortably with some webservice.
- Through a specially developed boot loader it is possible to download the current software via the network at any time.
- Through an optional serial ID chip a simple hardware change is also possible because by a simple manipulation the original configuration can be automatically restored via the network.



GXmS-MET Multifunctional.Emergency.Terminal

Technical specifications

- acoustic echo cancellation
- voice coding and compression (G. 711A-law, G. 729A/B optional on request)
- equalizer (digital filter)
- bad frame interpolation (BFI) for G.711
- noise reduction
- tone generation
- flexible ringing generation
- independent gain for all channels (+12 dB ... -99 dB)
- digital automatic gain adjustment
- 3 port switch
- port flow control (IEEE 802.3x)
- ethernet (10BaseT/100BaseT).
- auto-negotiation capability on all ports
- FDX und HDX
- L2 switching
- IEEE 802.1D Bridging
- spanning tree support
- Uni/Multicast
- IEEE 802.1Q VLAN Unterstützung
- IEEE 802.1Q VLAN support
- port and tag based VLANs
- untagging/tagging for all VLANs
- IEEE 802.1p CoS
- CoS selection based on VLAN tag, DiffServ DSCP field and port number
- weighted fair queuing and strict priority scheduling schemes.
- support for the following protocols:
 - GVRP and GMRP
 - BOOTP and TFTP
 - SIP (RFC 2543 / 3261)
 - H323 optional on request



- 32-bit CPU (150Mhz)
- 16-bit DSP (100Mhz)
- prepared for data encryption (256-bit DES 3)
- 2 (4) Ethernet Interfaces + LED indicators
- handset adapter connection
- loudspeaker- and microphone-connection (hands-free)
- two LEDs connections for status indication
- prepared for USB and earphones
- serial interface
- integrated I/O modules with max. 16 Inputs
- integrated I/O modules with max. 16 Outputs (60V~ 2A)
- interface for extending I/O modules

Ambient conditions:

supply voltage: DC 24V (20-28V)

temperature: -25 °C ... +70 °C

humidity: max. 92%

dimensions

central unit (LxWxH):

approx. 180 x 142 x 52 mm

weight: approx. 990 Gramm

mounting: C-Rail top hat rail

Area of application: emergency telephone, information columns with telephone exchange, acoustic irradiation, telematics functions, video transmission, security services, etc. – a system for language, data and video.

