

METIS

5x 10/100Mbit/s Ethernet Switch with one or two optical ports

- Connection of LAN Ethernet 100/10 Mbit/s through one (METIS) or two (METIS-2P) fiber optic interfaces
- Possibility of work in BUS configuration (METIS - 2P)
- Built-in Ethernet switch with an array of 1000 MAC addresses
- IEEE 802.1q support. Possibility of defining up to 15 VLAN networks (full range VID)
- Supports programmable rate limiting on Ethernet ports (from 64kbit/s to 100Mbit/s)
- Configuration through a dedicated RS-232 interface



Description of the device

Characteristic

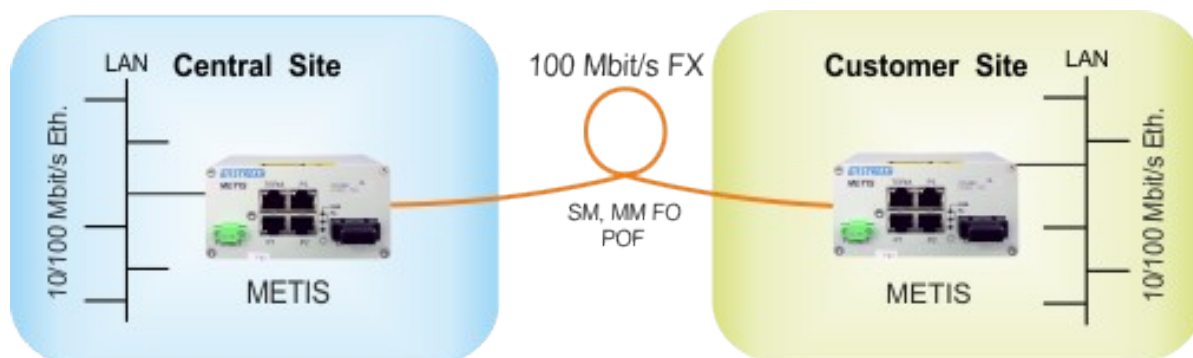
METIS is four(five)-port Ethernet switch equipped with three electric and one (two in case of METIS-2P) optical interfaces.

METIS has a built-in advanced VLAN mechanisms and flow control functions which

allow to separate available bandwidth with no additional hardware. Wide range of available optical interfaces, for single-mode, multimode and plastic fibers extends it's functionality.

METIS is also available in rack-mounted version (METIS-R) for RCK-ANY-01 rack shelf.

A standard application is presented in the drawing below :



The sample application, illustrating the connection of peripheral systems to measure the detectors or measuring environmental parameters in power stations unattended

Technical specifications

Supported transmission standards

- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3u 100Base-TX Fast Ethernet
- IEEE 802.3u 100Base-FX Fast Ethernet Fiber
- IEEE 802.3x Flow Control and Back-pressure
- IEEE 802.1p Class of Service (CoS)
- IEEE 802.1Q VLAN

Ethernet ports

- 10/100/ Mbit/s transmission speed
- Flow control function
- „Autocrossover” MDI, MDI-X function
- Supports VLAN, IEEE 802.1q
- Proper connection signalling
- 3 x RJ-45 type connector

Optical Ethernet ports

- SM, MM, WDM, 1310nm, 1550nm,
- Fibre type 9/125um, 62,5 / 125um
- SC connector,
- OptoLock (POF)
- Link Fault Pass Through

Ranges depending on the type of optical port
15km, 50km, 120km (1550nm), 20km WDM, 40km,
60km WDM

Management

- Only via CLI RS232 console port
- RS232: (9600,N,8,1)
- RJ45 connectors

Supported protocols

- ITU-T V.28 to management

Casing

- Dimensions 103x77x53mm
- Weight up to 0,3 kg
- Tightness IP30
- Suitable for mounting on DIN TH-35 rail

Environmental requirements

- Ambient temperature 0°C to +50°C
- Industrial version (T): -40°C to +70°C
- Relative air humidity 80% in temperature +20°C

Power supply

- Range of power supply voltages 12 ÷ 60V DC
- External 230V AC / 48V DC power adapter
- Up to 3W power consumption
- screw connections

Code

METIS-S-(X)-(P)-(T)

Working temperature option:**none** - range 0°C to +50°C**T** - range -40°C to +75°C**Protection function:****None** - without protection**P** - Protected version**Optional field, only if WDM is chosen in the preceding field:**

- 1** – 1310/1550 nm for version WS/WM/WL or 1550/1570 nm for version WLL
- 2** – 1550/1310 nm for version WS/WM/WL or 1570/1550 nm for version WLL
- 3** – protection - 1310/1550 and 1550/1310 nm for version WS/WM/WL or 1550/1570 and 1570/1550 nm for version WLL

Interface types:

- Built only a single interface speeds of 100 Mbps with SC/PC*:

MM – 850 nm MM – range 2 km**S** – 1310 nm SM/MM – range 20/5 km**M** – 1310 nm SM – range 50 km**L** – 1550 nm SM – range 100 km

- Interface WDM (necessary additional field (x) in an assay for the transceiver)

WS – 1310/1550 and 1550/1310 nm SM/MM – range 20/2* km**WM** – 1310/1550 and 1550/1310nm SM – range 40 km**WL** – 1310/1550 and 1550/1310 nm SM – range 60 km**WLL** – 1550/1570 and 1570/1550nm SM – range 100 km

* - Range for MM fiber is indicative depending on actual fiber parameters