

FOX505 Access Multiplexer Utility Communications



Overview

ABB extends its comprehensive portfolio of Utility Multiplexers by FOX505, a compact Access-Mux with transport capacity up to STM-1. The network element fully supports ring and linear topologies and is ideal to feed higher order SDH-backbones. Its extended operational temperature range and a wide choice of interfaces match the requirements of most utilities.

The 19" wide / 4 units high chassis provides 14 front-access slots for:

- 2 redundant controller modules
- 2 redundant, hot swappable power supply modules
- 2 high speed modules (e.g. STM-1)
- 8 slots for any combination of other interface cards (e.g. E1, voice, LAN, legacy, G.HSDL etc.)

The controller boards provide management access (LAN & RS232) as well as external alarm inputs (3) and one output. In addition, a synchronization port is available. Two board options with different cross-connect sizes allow optimizing this rugged network element technically as well as cost-wise.

The design of the multiplexer allows continuous operation at temperatures up to 55°C.

Whatever supply voltage in the range of 93-250 VAC / 36-72 VDC is applied, it can be handled by the same type of power supply module and redundant load-sharing operation is fully supported.

The device can cope with the typical Ethernet / LAN utility requirements in the field of access-services. An Ethernet switch board offers L1 & L2 functionality whereas the IP / PPP board handles all TDM traffic carrying PPP-encapsulated IP-traffic.

Like all other FOX-devices, FOX505 is managed by ABB's network management system.

Interfaces

Interface-Type	Characteristics/number of ports
CPUX64	Includes DXC for 61xE1@64kbps levels support redundant config
CPUX128	Includes DXC for 260xE1@64kbps levels support redundant config
STM-1 opt/electrical	1 port for short/long haul or coaxial
E1 electrical (75/120 Ohm)	Variants for 1/4/16 ports
E3 electrical (75 Ohm)	1 port
Codir_703 board	Supports up to 6 ports for 64k/128/256 kbps (G703)
V.35, V.36/V.11, V.24/V.28	Up to 6 ports; option for X50 support
G.HDSL board	Supports up to 6 ports for 64k/128/256 kbps (G703)
FXO / FXS telephony boards	Variants for 4/10 ports
E&M telephony board	Supports 4 ports for 4 wire
Ethernet switch board	For up to 8 ports E/FE running L1 or L2 services incl. VLAN and priority handling
IP/PPP-interface board	Terminates PPP over TDM and provides VLAN/Q in Q tagged LAN on 2FE/GbE ports
CESoP board	Circuit emulation over ethernet 2 ports
Alarm & serial IF board	16 alarm inputs & f outputs 2 oversampled RS232 - serial IF

For more information please contact:

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