

TEAMLINK FABIO4CS

Integrated Access Multiplexer

FABIO4CS is a modular integrated Access TDM multiplexer with 512 x 512 cross connect ability, which integrates multiple dedicated data, voice and LAN channels over multiple main (network) links. It can provide maximum 4E1 or 8E1 capacity for accessing and transmission with cross-connect capacity is 512×512 64Kbps. It provides full range of voice and digital data services to subscribers located at different locations require to interconnect and establish a voice and data network over E1 & STM1 links.

The flexible, 1U high, 19-inch, 5-slot modular **FABIO4CS** chassis with a wide choice of I/O (user interface) modules is designed for applications ranging from small campus networks to multi-site corporate networks or extensive carrier access solutions. Due to **FABIO4C**'s standards adherence, central office based cross-connect units (DACS) can separate voice and data, sending each to the appropriate carrier or service.

FABIO4CS enables carriers to successfully deploy bundled services and Internet access. The integration of a broad range of services makes **FABIO4CS** a cost-effective access device, with reduced deployment and maintenance costs. The equipment conforms to international standards, ensuring compatibility in multi-vendor environments worldwide.

FABIO4CS is designed to carry Various Original Equipment Manufacturer's Digital Axle Circuits over optical fiber (STM).

Key Features

- Compact 1U high, 19-inch chassis
- Number of uplink-slots : 1
- Number of service-slots: 4
- Modular construction with four (4) slots for hot-swappable I/O modules
- Max. E1 channels: 4 or 8E1 with (1+1) feature
 - Frame structure: Supports optional CRC-4 and PCM 30/31 settings.
 - Timing: Internal Crystal Oscillator clock, Clock received from any link (loopback)
- Versatile 64Kbps User interface: Supports FXO/FXS Voice modules with caller number display, E&M 2/4-wire module with adjustable voice gain, hotline with standard signaling tone and V.24/RS-232 low speed module

Max. FXO/FXS channels : 30 ~ 40 Max E&M channels : 24 ~ 32 Max V.35 channels : 3

Max FE channels : 3

- Performance Monitor: EMS available to monitor the equipment & configure
 - Customer service can be allocated by on-line network operator.

Flexible network topologies: Point-to-Point, Daisy Chain.

- Local and Remote Telnet support
- STM1 | STM4 : uplink module available

TECHNICAL SPECIFICATIONS

FABIO-4C

I/O modules : 4E1, FXO, FXS, Hot-line, 2/4W E&M, RS232/V.24, ETH, 8E1, STM1, C37.94

Chassis(height) : 1U, 19-inch wide Number of Service-slots : 4 slots for I/O modules

Telnet port : 10/100Mbps (RJ-45), Ethernet



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Voice Interfaces

Channel sampling rate : 8 KHz Companding law : A-law

Voice Interface : 2W, 4W, Signalling, FXO, FXS, E&M

Frequency : 300 to 3400 Hz Impedance : 600 Ohms

Ring current voltage : $75 \pm 15 \text{V AC}$, $25 \pm 3 \text{ Hz}$

Data Interfaces

Low speed data interface: RS232, V.24 Characteristic: ITU-T V.24

Data Format : Asynchronous, Synchronous

Asynchronous data : upto 19.2 Kbps Synchronous data : 64 Kbps ~ 128 Kbps

V35 Data Interface

Characteristic : ITU-T V.35

Bit Rate : N x 64 Kbps, N=1~31

Ethernet Data Interface

Characteristic : IEEE 802.3

Bit Rate : N x 64 Kbps, N=1~31

Uplink Interfaces(E1)

Supports 512×512 cross connect ability based on 64K with signaling

Bit rate : 2048 +/- 50 ppm

Code : HDB3

Impedance : 120 Ohms Balanced

Electrical characteristics : ITU-T G.703

Transfer characteristics : ITU-T G.823

Jitter performance : ITU-T G.823

STM UPLINK

STM : STM1 SNCP

Disaster Management Communication (IR)

FABIO series devices are suitable for disaster communication for extending various services to mid-section in Indian Railways

Power Supply

AC: 100V ~ 240V AC (220V nom) DC to AC adaptor and DC: -36V ~ -72V (nom: -48V DC)

Environment

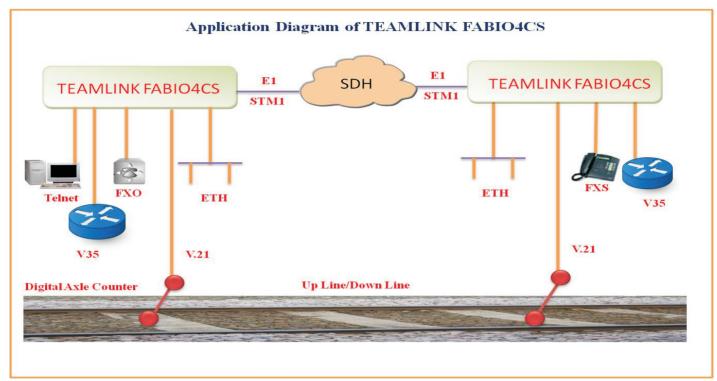
Operating Temperature : -5 to +55°C
Operating Humidity : 5% to 99 %
Air pressure : 86 to 106 KPa



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APPLICATION DIAGRAM



Ordering FABIO4CS

FABIO/4CS/4E1/DC	FABIO4CS PCM Multi Service Multiplexer chassis (1U-high) with 4 E1interface uplink (120 Ohms balance RJ45 connector), 1Telnet port, 4 module slots, with one DC power supply
FABIO/4CS/8E1/DC	FABIO4CS PCM Multi Service Multiplexer chassis (1U-high) with 8 E1interface uplink (120 Ohms balance RJ45 connector), 1Telnet port, 4 module slots, with one DC power supply
FABIO/4/M/10FXO	Audio interface card for user, providing 10 FXO links per card
FABIO/4/M/10FXS	Audio interface card for user, providing 10 FXS links per card
FABIO/4/M/8E&M	2/4 wire E&M trunk interface card, 8 interfaces per card, one SCIC female connector Adapter cable :Voice cable (CBL-VOICE-SCSI50M (40)/NC-3m)
FABIO/4/M/8RS232	RS232 interface card, providing 8 links RS-232 Asynchronous channels,RJ45 connector
FABIO/4/M/2FE	High speed Ethernet interface card, providing two 10/100 Base-T Ethernet port, RJ45 connector
FABIO/STM1	STM1 module uplink supporting standard STM1 interface



Team Engineers Advance Technologies India (P).Ltd

Plot No. A-1/2/A, Industrial Park, Uppal, Hyderabad - 39,Telangana(India)

Phone: +91-40-27204730 / 4873 / 4874, Fax: +91-40-27204731

e-mail: info@teamengineers.in, www.teamengineers.in