

# FMUX1001 & FMUX101 Interface Module



**E1/T1 RJ-45 I/F**



**E1 BNC I/F**

<b>Standards</b>	ITU-T G.703, G.704, AT&T TR-62411, ANSI T1.403	ITU-T G.703, G.704, G.706, G.732
<b>Ports</b>	4 ports	4 ports
<b>Framing</b>	Unframed ( clear channel )	Unframed ( clear channel )
<b>Data rate</b>	T1: 1.544 Mbps ±50 ppm, E1: 2.048 Mbps ±50 ppm	E1 2.048 Mbps ± 50 ppm
<b>Line code</b>	T1: B8ZS / AMI, E1: HDB3 / AMI	E1 HDB3/AMI
<b>Receive Level</b>	Short haul - 15dB	Short haul - 15dB
<b>Line impedance</b>	T1: 100 ohms ±5%, E1: 120 ohms ±5%, 75ohms ±5%	E1 75 ohms ± 5%
<b>Connector</b>	RJ-45	BNC 75 ohms



**Datacom I/F**

<b>Standards</b>	ITU-T, E1A
<b>Card Type</b>	V.35/ RS-530 (Include X.21 and RS-449)/ RS-232 I/F
<b>Bit rate</b>	n x 64K, n = 1 to 32 V.35 & RS-530 up to 2Mbps RS-232 up to 115.2Kbps (ASYNC)
<b>Line code</b>	NRZ
<b>Clock Mode</b>	Transparent, Recovery, External (From data port ETC) Internal (From oscillator)

<b>Control Signal</b>	CTS always On or follows RTS DSR constantly ON, except during test loops (RS-530 DSR always connect to DTR) DCD constantly ON, except during fiber signal loss
<b>Test Loops</b>	Local loop back, Remote loop back, V.54
<b>Connector</b>	Type Uses HD-68 pin D type Female with adapter cables



**FXO/FXS I/F**

<b>Standards</b>	G.711 A-law (separate modules for FXO, FXS)
<b>Distance</b>	2km
<b>Bandwidth</b>	64K voice channel
<b>Connector</b>	RJ45 x 4 (4 voice channel /per unit)

## Ordering Information

Model Name	Type	Description
FMUX1001-CH	Chassis	1U 19" 4-Slot Rack Mount Chassis
FMUX101-CH	Chassis	1U 19" 4-Slot Rack Mount Chassis
FMUX-AC	Power	Chassis Power Module 110~240VAC
FMUX-DC	Power	Chassis Power Module 36~72VDC
FMUX-4E1/BNC	Card	4ch G.703 E1 BNC interface card
FMUX-4E1/T1-RJ45	Card	4ch E1/T1 RJ45 interface card
FMUX-4E1/T1-Wire	Card	4ch E1/T1 Wire Wrap interface card
FMUX-V35	Card	V35 interface card with one HD68M to 4 x MB34 cable
FMUX-530	Card	RS-530 interface card with one HD68M to 4 x DB25F cable

FMUX-449	Card	RS-449 interface card with one HD68M to 4 x DB37F cable
FMUX-X21	Card	X.21 interface card with one HD68M to 4 x DB15F cable
FMUX-232/Async	Card	RS-232 Async card with one HD68M to 4 x DB9F cable
FMUX-FXO	Card	4 x FXO interface card
FMUX-FXS	Card	4 x FXS interface card
FMUX-Phone-2W	Card	2 Wires order Wire (connect to analogue Telephone set)
FMUX-Phone-4W	Card	4 Wires order Wire (connect to Ear-Mic set)
FMUX-EXT/CLK	Card	External clock interface card

Example:

Chassis/Power/Line card Only

FMUX **1 0 0 1** - CH

1001 : GbE Fiber Multiplexer  
101 : FE Fiber Multiplexer

FMUX **A C**

Power Module

FMUX **V 3 5**

I/F Line Card

Whole Set

FMUX **1 0 0 1** - **A C** - **2 W** - **A B C D**

1001 : GbE  
101 : FE

Power Type  
AC  
DC  
AA : AC + AC  
DD : DC + DC  
AD : AC + DC

Order Wire  
2W : 2 Wire Phone  
4W : 4 Wire Phone

Card Type

A : 4x E1 BNC  
B : 4x E1/T1 RJ45  
C : 4x E1/T1 Wire  
D : 4x V.35  
E : 4x RS-232/Async  
F : 4x RS-530  
G : 4x X.21  
H : 4x RS-449  
I : 4x FXO  
J : 4x FXS  
L : EXT/CLK