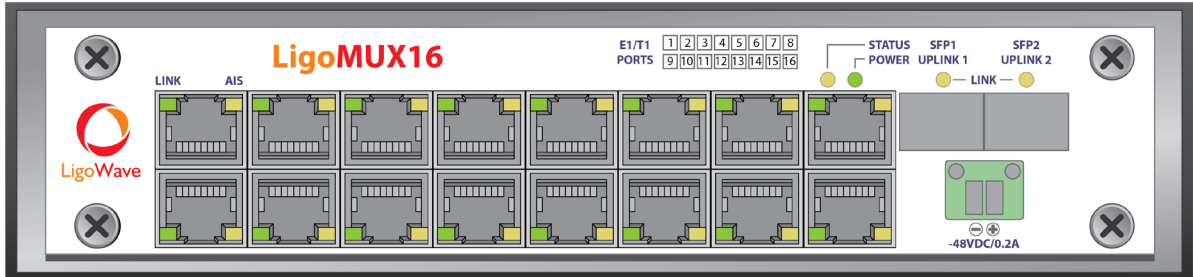


LigoMUX 16

External E1/T1 multiplexer



Product Overview

LigoMUX 16 is an external multiplexer module that provides E1/T1 extension for the IDU (indoor unit) of LigoPTP 620HP microwave licensed-band equipment. The module allows multiplexing up to 16 E1/T1 circuits. LigoMUX 16 has 16 x E1/T1 built-in ports and 2 x SFP 1000 Base-SX ports. It is a really compact and easy to configure device (configuration is done via LigoPTP 620HP unit) and has scalable design which can be extended for up to 32 x E1/T1 ports.

E1/T1 ports

Each of RF-45 ports feature a pair of indicative LED lights (yellow and green).

Link - green LED

Green LED light indicates that E1/T1 link is active and is receiving a valid signal.

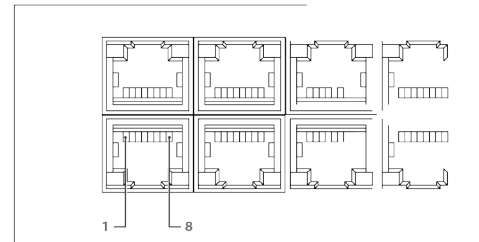
AIS - yellow LED

Alarm indication signal (AIS) shows possible errors occurring on E1/T1 link.

All the ports are protected against ESD (electrostatic discharge), CDE (cable discharge events) and lightning.

The position and indexing of 16 E1/T1 ports is explained below:

- Pin1 - Rx-
- Pin2 - Rx+
- Pin4 - Tx-
- Pin5 - tx+



SFP ports

It is recommended to use plain SFP modules (without I2C communication). For example Signamax 1G SFP optic module MM LC - Cisco compatible, multimode, 850 nm. The interconnection is than over Fiber Optic Patchcords 62,5/125µm, MM, LC connectors, DUPLEX.

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Specifications

Interfaces	
Nuber of RJ-45 ports	16
Interface	G.703-E1 balanced 120 ohm for E1 mode G.703-E1 unbalanced 75 ohm for E1 mode T1.102-T1/100 ohm for T1 mode
Specification compliance	T1.102, AT&T Pub 62411, T1.231, ITU-T G.703, G.742, G.775, G.823, ETS 300 166, ETS 300 233
Coding	HDB3 for E1 mode, B8ZS for T1 mode
IDU interface	1 x SFP 1000 Base-SX (proprietary GIGE protocol) for connection with LigoPTP 620HP

Other		
Mechanical	Dimensions	224x44x134mm (8.8x1.7x5.3 inch)
	Weight	1.3 kg (2.86 lb)
	Protection	EN 60529 (IP-31)
Input voltage level	EMM only	-20 VDC up to -60 VDC
Power consumption	EMM 16 x E1/T1	<9W
Environmental	Temperature	-5 to +45 C (23 to 113 F)
	Humidity	0 to 95%, non condensing
	Altitude	4,500 m (14,763 ft)
Compliance	Operation	ETSI EN 300 019, PART 1-3, Class 3.2
	Storage	ETSI EN 300 019, PART 1-1, Class 1.2
	Transportation	ETSI EN 300 019, PART 1-2, Class 2.3
	Power	EN 300 132-2
	EMC	EN 55022 Class B EN 61000-4-2,3,4,5,6,8,11 EN 61000-3-2,3
	Safety	IEC 60950-1/ EN 60950-1

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