DanialMoj
Optical Telecommunication Solutions Provider

Muxponder 10G OTN

Part number: DMAMUXP010G082

DESCRIPTION

This is one of the telecommunication facilities in OTN level which provides the possibility of transporting the traffic in different capacities ranging 100Mb to 10Gb on the OUT frame. This system contains 8 input client ports for the recipient services (UNI) and two Uplink (NNI) ports. The NNI1 port serves as the Main Uplink and NN2is Protection Uplink. Due to the existence of two ports NNI supporting (the Protection Config function in SNCP brands in Ring networks and/or establishing double routes in the Chain Networks) the function of this system is in this manner; The UNI side consists of eight any-client multi-rate access ports, UNI1 and UNI2 support 100Mbps~11.1Gbps services, and the other six support 100Mbps~6.5Gbps services. The total usable bandwidth of the 8-channel is limited to 20Gbps. The NNI side has two OTU2 ports. As an OTN access device, DMAMUXP010G082 is used to aggregate STM-1/4/16/64 service, GE/10GE service, and arbitrary service rate between 125Mbps and 10.7 Gbps into OTU2 for OTN networking. The 8 UNI ports receive multi services in clients and as the Cross connect already defined in the system, (the system) contains the capability of supporting a combination of TDM and Base Packet services. In the frame, the OTU2 is transmitted to recipient via one of the NNI defined ports. In opposite side; too, the Muxponder 10G receives the OTU2 frame from its NNI port and connects the received traffics to each UNI port of the relevant service client as per the defined CrossConnectConfig; and, the client receives this service.

Specifications of the apparatus (front view) include:

- Eight service inputs (UNI)
- Two service outputs (NNI)
- The network port (NM)
- The Console ports
- TheBITSportforadjustingtheapparatusclockbyanoutsidesystem
- The RST switch (for the hardware reset of the apparatus).

Muxponder 10G with 322x482x45 (HxWxD) physical dimensions in mm scale

Features

- G.709 defined OTN encapsulation, mapping, and overhead;
- Pluggable optical modules;
- Alarm detection;
- SNMP, CLI command line;
- Intelligent fan with controllable temperature and manual/ automatic adjustable fan speed.

Product Specifications

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Date set: 24 August 1400; This is the technical specifications sheet of the product and the amount and criteria of the last technical sheet produced, which can be cited based on the adjustment date.

Index				Performance Parameter	
Monitoring Interface		SNMP Interface	Connector Type	RJ-45	
			Rate	10/100M	
			Interface Protocols	SNMP Protocol	
		Console Interface	Connector Type	RJ-45	
			Baud Rate	115200; Data bit: 8; Stop bit: 1; No parity check	
			Electrical Specifications	RS-232	
Line side optical	OUT 1 interface	OUT Input Rn Parameter	Receiving sensitivity dBm	-21(PIN) <-28(APD)	
			Receiver Reflection	<-27	
			Overload power dBm	0(PIN) -9(APD)	
			Input signal wavelength area-nm	1280~1565	
		OUT Output Sn parameters	Optical Spectral Properties	Maximum -20dB Spectrum width-nm	1(SFP)
				Minimum side mode suppression ratio-dB	35
			Center frequency	Nominal center frequency-THz	192.1~196.0
				Center frequency offset	≤ ±12.5(100 GHz)
			Average transmit power	Max-dBm	6
				Min-dBm	0
			Minimum extinction Ratio		8.2 (SFP)
			Dispersion accommodation value-ps/nm		3600 (DM SFP)
			Eye Frame		Meets ITUT.G957 or ITUT. G959.1
	OUT 2 interface	OUT input Rn parameters	Rate – Gbit/s		9.953~11.318
			Receiving sensitivity dBm		-14(PIN) <-21(APD)
			Receiver Reflection		<-27
			Overload power dBm		>0(PIN) >-9(APD)
			Input signal wavelength area-nm		1280~1565
		OUT output sn parameters	Optical spectral properties	Maximum -20dB spectrum width-nm	<0.3(NRZ)
				Minimum side mode. / Suppression ratio-dB	>30
			Central frequency	Nominal center frequency-THz	Meets ITU-T G.694.1
				Center frequency offset	≤ ±12.5(100 GHz)
			Average Transmit power dBm		-3 ~ 1
			Minimum extinction Ratio dB		8.2
			Dispersion acc0mmodation value-ps/nm		-300 ~ 800
			Eye Frame		Meets ITUT.G957 or ITUT. G959.1
Client-side optical interface	Stm-1 interface	Rate		155 Mbit/s	
		Line pattern		Scramble NRZ	
		Optical interface		According to the selected SFP/SFP+ module	
		Connector		Standard	LC dual Fiber Bi-directional (SFP)
				Optional/s	LC single Fiber Bi-directional (SFP)

Client-side optical interface	Stm-4 interface	Rate	622 Mbit/s	
		Line pattern	Scramble NRZ	
		Optical interface	According to the selected SFP/SFP+ module	
		Connector	Standard	LC dual Fiber Bi-directional (SFP)
			Optional/s	LC single Fiber Bi-direction-al (SFP)
	Stm-16 interface	Rate	2.5 Gbit/s	
		Line pattern	Scramble NRZ	
		Optical interface	According to the selected SFP/SFP+ module	
		Connector	Standard	LC dual Fiber Bi-directional (SFP)
			Optional/s	LC single Fiber Bi-direction-al (SFP)
	Stm-64 interface	Rate	10 Gbit/s	
		Line pattern	Scramble NRZ	
		Optical interface	According to the selected SFP/SFP+ module	
		Connector	Standard	LC dual Fiber Bi-directional (SFP)
			Optional/s	LC single Fiber Bi-direction-al (SFP)
	FE ethernet interface	Rate	125 Mbit/s	
		Optical interface	According to the selected SFP/SFP+ module	
		Connector type	SFP	
		Interface standard	IEEE 802.3	
		Working mode	Auto negotiation, forced 100M full duplex	
	CE ethernet interface	Rate	1.25 Gbit/s	
		Optical interface	According to the selected SFP/SFP+ module	
		Connector type	SFP	
		Interface standard	IEEE 802.3	
		Working mode	Auto negotiation, forced 1000M full duplex	
	10G Ethernet inter-face	Rate	10Gbit/s	
		Interface standard	IEEE 802.3	
		Optical interface	According to the selected SFP/SFP+ module	
		Connector type	SFP+	
		Working mode	Full duplex	
	OUT1 interface	Transmission rate	2.5Gbit/s	
		Line pattern	Scramble NRZ	
		Optical interface	According to the selected SFP/SFP+ module	
		connector	SFP	
	OUT2 interface	Transmission rate	10Gbit/s	
		Line pattern	Scramble NRZ	
		Optical interface	According to the selected SFP/SFP+ module	
		connector	SFP+	
	External clock Input/ output interface	rate	2048 Kbit/s or 2048 KHz	
		Connector type	RJ45	
	voltage	voltage	AC~220v(AC 85v ~ 264v)	
	power	power	<28w	
	Environment	Operating temperature	0~50 centigrade	
		Storage temperature	-25 ~ 60 centigrade	
		Relative Humidity	10 ~ 90 % RH (non -condensing)	
	Physical Dimension H/D/W	Size-mm	44.180.360	
	Weight full load	< 2.1 Kg		