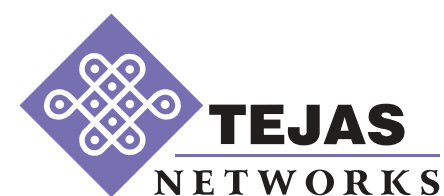


TJ1280



The TJ1280 is an ultra-compact, high-density MSPP, designed to integrate numerous interface types within a compact 1U form factor. This versatile unit can function as Customer Premise Equipment or as a network element within the Access Network. It is capable of scaling from STM1 to STM16 in both SDH and SONET versions, and it supports line rate FE and GigE interfaces with Carrier Ethernet capabilities.

The TJ1280 optimizes transport bandwidth for the provisioning of voice and data services. This single device can build TDM networks and Carrier Ethernet over SDH networks by efficiently allocating bandwidth from TDM aggregates.

This makes it ideal for Mobile backhaul, microwave hub locations, and aggregation rings for Triple Play and Enterprise services, providing connectivity for both E1 and Ethernet interfaces.

Key Features

4 optical ports

- 4xSTM-1/4/16 or
- 2xSTM-1/4/16+2x1GE
- 21xE1/DS1 (Stacked D-Sub 44)

Management, Alarm, and BITS interfaces (RJ45)

- LCT
- Alarm In/Out
- NMS
- BITS

- Operating Temperature: -40°C to +65°C
- Storage Temperature : -40°C to +70°C
- Operating Humidity : 5 ~ 90 % (non-condensing)
- Storage Humidity : 0 ~ 95% (non-condensing)
- Front to back air flow with FRU fans at the rear for the higher configurations
- Dual power supplies at the front: Dual AC
- Dual DC
- AC + DC
- Synchronization
- 1+1 MSP Protection
- SNCP Protection
- Performance Monitoring

- E1 interfaces for TDM traffic
- Ethernet over SDH

EMI/EMC

- FCC Part-15, Subpart B, Class-A
- ICES-003, Class-A
- EN 55032 Class-A / CISPR-32 Class-A
- EN 61000-3-2 and EN 61000-3-3
- EN 55035 / CISPR 35 (EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, and EN61000-4-29)

MTBF

41 years

Safety

- Certified for CB – Scheme
- IEC 62368-1 / EN 62368-1
- UL 62368-1

Laser Safety

- IEC 60825-1 / EN 60825-1
- IEC 60825-2 / EN 60825-2
- 21 Code of Federal Regulations (CFR)1040

EMI/EMC
Environment

- ETS 300 019-1-1, Class 1.2 Storage
- ETS 300 019-1-2, Class 2.3 Transportation
- ETS 300 019-1-3, Class 3.2 Operating stationary use

- QM333 –Standard for Environmental Testing of Telecommunication Equipment

RoHS compliant

- Directive 2011/65/EU and Directive 2015/863/EU

Port Configurations

- 21xE1/DS1 ports (Stacked D-Sub)
 - 4x10/100Mbps Ethernet ports (RJ45, P1-P4)
 - 4x10/100/1000BaseT ports (RJ45, P5-P8)
- 4 SFP ports
 - 4xSTM1/4/16
 - 2xSTM1/4/16 + 2x1G Ethernet

Base configuration of TJ1280 supports 2xSTM1/4 + 21 E1 + 4*10/100 Mbps FE ports. Remaining all port configuration can be enabled on purchase of license. Licenses which can be enabled are shown in the table below:

License TPN	Type
127-LIC000022-P	Base Conf + 2*STM1/4
127-LIC000019-P	Base Conf + 2*STM16 (P1 and P2)
127-LIC000020-P	Base Conf + 2*GiGe Optical (P3/P4 can be configured as Eth Ports P9/P10)
127-LIC000023-P	Base Conf + 4*10/10/1000 Mbps Eth Ports (Eth port P5-P8)
127-LIC000021-P	Base Conf + 4*STM16 (STM16 enabled on all STM Ports)
127-LIC000025-P	2xSTM1/4/16 + 2xSTM1/4/16 + 4 FE + 4 *Trirate Eth Ports + 21*E1
127-LIC000024-P	2xSTM1/4/16 + 2xGig Optical Port + 4 FE + 4 *Trirate Eth Ports + 21*E1

Physical Dimensions

Parameter	Specification	Value
Height	-	44 mm
Weight	• With two PSU	5.8 Kg
Width	• Without mount angles • With mount angles	445 mm 495 mm
Depth	• Without guide and rear-end supply • With guide and AC power supply	250 mm 330 mm

Electrical Specifications

Specification	Range
Input Voltage	-48V DC 100-240V AC
Nominal input voltage (for the base card)	12V (PSU output)
Nominal power	45W
Maximum power	65W (with Fans at full-speed under high Ambient Temperature conditions)



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