

TJ1400-1 G4 Pizza-box OLT

Flexible and Cost-Effective Broadband Deployment



DATA SHEET



Product Highlights

Compact 1RU half rack width platform supporting 4 x 2.5 GPON Ports

1:128 split per GPON port, enabling 512 subscribers

Enhanced **QoS and Multicast** for Video

Compliant with ITU-T G.984/G.988 with carrier-class reliability

Residential, Enterprise, Mobile Backhaul and IoT applications

Key Features and Benefits

TJ1400-1 G4 is a compact, low density 1RU GPON OLT with 4 GPON ports. This OLT is half rack width with the flexibility to add two of them side by side. It addresses the need for ultra compact, low power consumption platform for fixed-line broadband solutions in residential deployments, enterprises and video surveillance networks.

It encompasses GPON and Carrier Ethernet (CE) technologies. It comes in AC and DC power supply variants. DC variant supports redundant input feeds. The product allows easy installation and commissioning so that the operators' investments are minimized.

Tejas GPON products are fully compliant to ITU-T G.984 and ITU-T G.988 set of standards

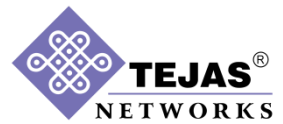
Flexible, Scalable Backhaul: TJ1400-1 G4 GPON OLT offers 2x1GE/2.5GE* SFP + 2x1GE RJ45 uplink interface to allow the FTTx provider to choose the most cost-effective backhauling option for his GPON traffic.

Multilevel Protection and QoS: It supports multi-level protection for fiber cuts, splitter damage, ONT and OLT port failures. It has advanced bandwidth management features to assure the highest quality of service to delay/jitter sensitive real-time video/voice/data applications.

Carrier-class Management: TJ1400-1 is available as a fully managed, end-to-end solution for FTTH/FTTB services with a complete range of end-user ONT devices. These devices come with a diverse set of customer ports such as Fast Ethernet, Gigabit Ethernet, POTS, and Wi-Fi (802.11n/ac) to address multiple deployment scenarios

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Technical Specifications

GPON Interface Specifications

SC/APC connector
Line Rate: D/S, U/S – 2.5/1.2 Gbps
Connector: LC/APC
Wavelength: 1490 nm/1310 nm
Video: 1550 nm
Standard OMCI Management Function
Distance: 20km depending on split ratio
Class B+ and C+ optics support

Network Uplinks

2xSFP(1GE/2.5GE*) ports,
2x1GE RJ45 ports,

L2 Switching

IEEE 802.1Q
Link Aggregation (802.3ad)
IGMP Snooping v1/v2/v3*
Broadcast/Multicast storm recovery*
Traffic Policing
QoS (DSCP/802.1p)
Open ERPS (ITU G.8032)
MAC learning, MAC limiting
DHCP relay Agent with Option-82*
Pluggable SFP for Ethernet ports

Network Protection & Testing

STP, RSTP (IEEE 802.1D-2004)
Link Aggregation Group (LAG)
Ethernet Ring Protection ITU-T G.8032
Type-B Protection with <1s switching time.
Port mirroring

Standards

ITU-T G.984 (GPON), ITU-T G.988

Management

Unified TejNMS based Network Management

Node Management

Configurable management VLAN
WEB based (HTTPS)
Telnet
SNMP v1/v2c
10/100BaseT Management Interface

Power

AC: 160-270V
DC: -40 to -60 Volts
Maximum Power: 40 Watts
Forced Cooling
Single AC feed or Dual -48V DC feed Fixed PSUs

Environmental

Operating Temperature: 0°C to 60 °C
Storage Temperature: -40°C to 70°C
Altitude: 6,000 ft. with max. temperature, 3°C/1000 ft. derating afterwards
Humidity: 5 to 90% non-condensing

Physical Dimensions (H*W*D in mm)

TJ1400-1 G4 : 220 (W) x 155 (D) x 44 (H)

Regulatory Standards

IEC / EN 55032, IEC / EN 55035, CISPR32, CISPR35,
IEC /EN 62368-1, UL 62368-1, NRTL Listed, FCC Part 15, RoHS 6/6

**upcoming release specifications subject to change without notice*



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