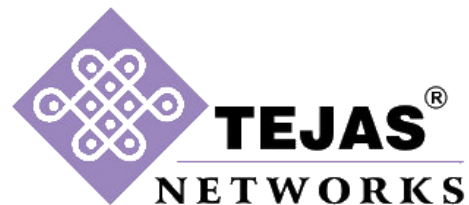


TJ1400-1 OLT with ONT20PS/20PS4



Features



- TJ1400-1 is a comprehensive access solution, deployed as GPON OLT.
- TJ1400-1 is available in 8xGPON ports.

Supported features

- Functionality: GPON OLT with L2 switch.
- Switching capacity: 100G.
- Compact: 1RU platform with 1 expansion/add-on slot.
- Flexible SNI, 2x1GbE+4x10GbE (or) 4x1GbE+2x10GbE per chassis (user configurable).
- 1+1 redundancy for power supply unit.

NOTE: Only AC+AC Power supply provided at rear end of the TJ1400-1 chassis.

- 1024 terminal connections possible using 1:64 split.
- Integrated with backhaul to reduce equipment footprint and reduce TCO (Total cost of ownership).

Features



- 16 GEM ports per GPON port.
- 1024 allocations per PON port and 4096 allocation IDs per card.
- Management Integration with EMS directly managing ONTs with OMCI commands.
- Dynamic Bandwidth Allocation (DBA) for upstream traffic, Advanced Encryption Standard (AES) 128 bit for downstream traffic.
- Forward Error Correction (FEC) for upstream and downstream traffic.

Architecture

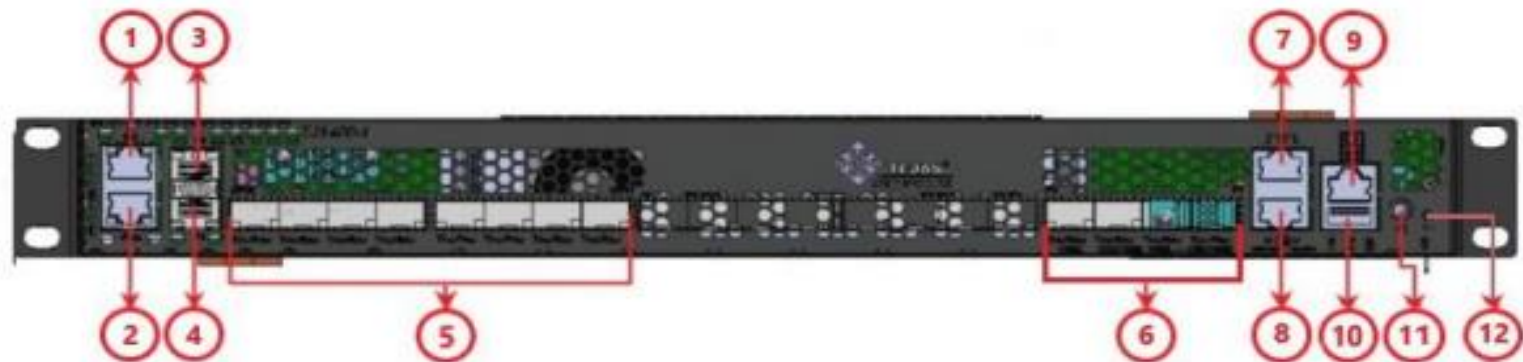


FIG: Front Panel

Height	<ul style="list-style-type: none">• 44mm
Width	<ul style="list-style-type: none">• 444mm• 481.2mm with mount angles
Depth	<ul style="list-style-type: none">• 395mm• 423.6mm with connectors and handles.

1	NMS port	7	BITS Data port
2	LCT port	8	ToD port
3	1G port	9	Alarm In and Alarm Out
4	1G port	10	USB port
5	Ports (GP8 - GP1)	11	DIAG port
6	Ports (P4-P1) : P4 - 10GE port P3 - 1GE/10GE port P2 - 10GE port P1 - 1GE/10GE port	12	Reset switch

Architecture

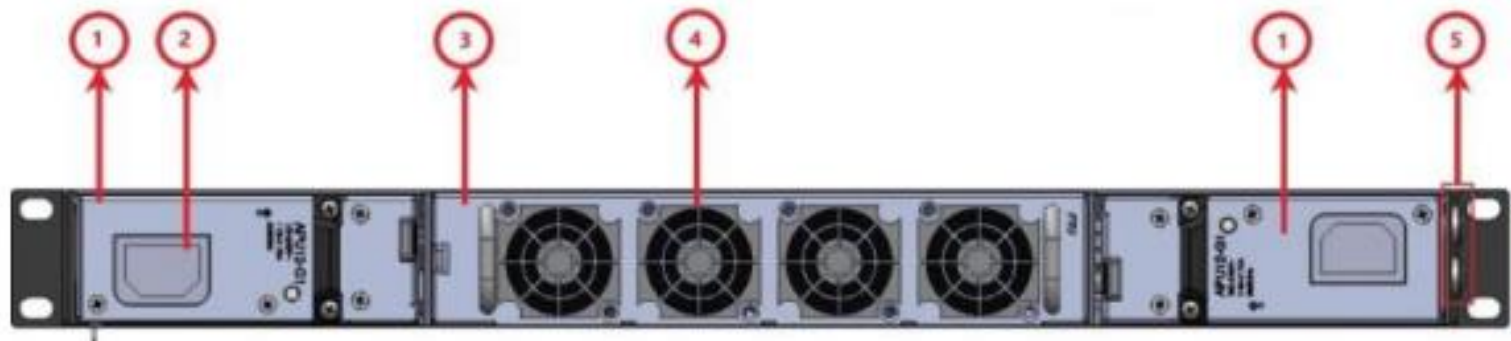


FIG: Back Panel

1	Power supply unit (APU12-G1)	4	Fan in FTU (4 nos)
2	Power socket	5	Earthing terminal
3	Fan tray unit (FTU-G1)		

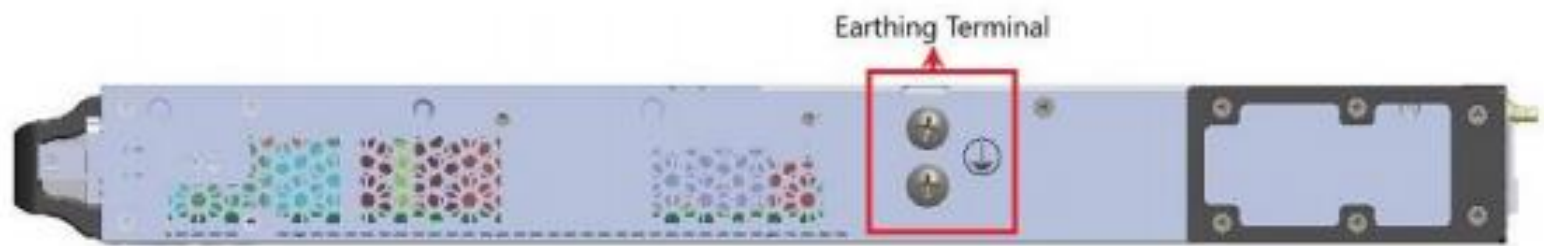


FIG: Earth Terminal

AC Power supply unit - APU12-G1



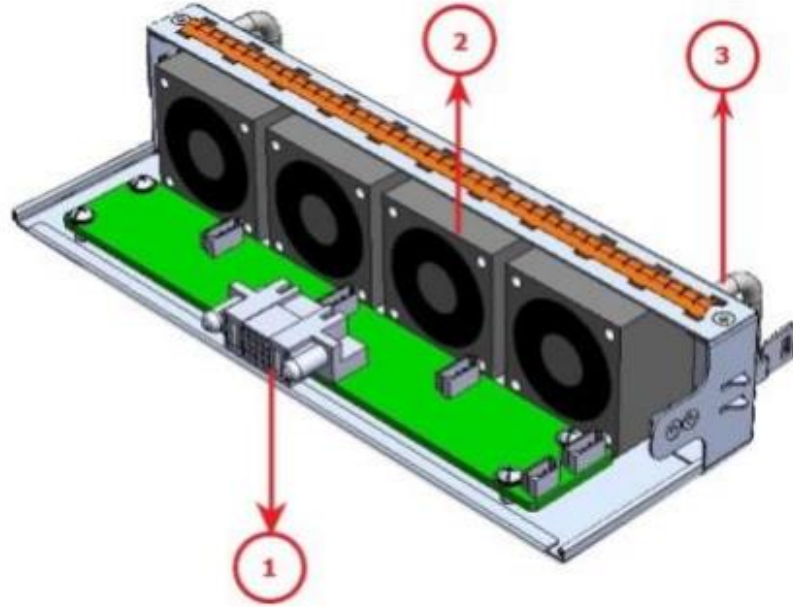
Operational Specifications

- The power supply unit APU12-G1 for TJ1400 converts the AC input to 12V DC output. The power supply supports a maximum output of 125W continuous at 12V.
- Functional protection

APU12-G1 card has the following protections:

- Inrush current limit.
- Surge.
- Input Under-voltage and Over-voltage.
- Output Over-Current protection.

Fan tray unit - FTU-G1



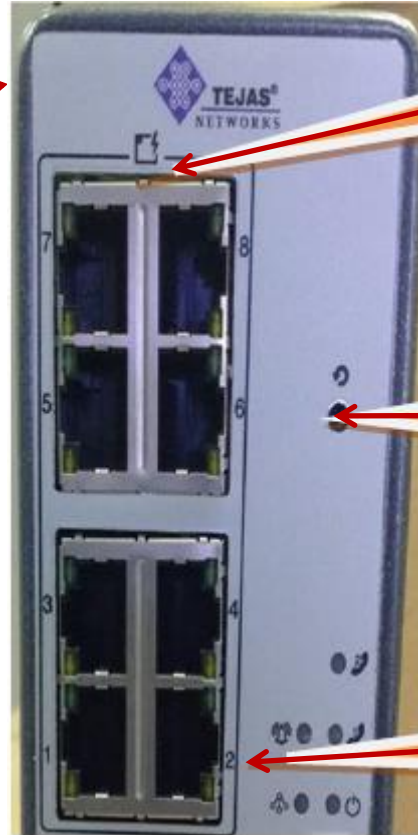
1	Connector
2	Fan
3	Handle

FTU-G1 unit is designed to cool the system by 5°C. It supports the following:

- Four fans.
- Fuse on each fan power supply isolates any failed fan from other fans.
- Fan speed monitoring and control through software, based on the temperature sensing.
- Temperature monitoring of the airflow path.
- Field replaceable unit.
- Hot swap capability.
- MTBF per fan of 70,000 hours.

NOTE: An alarm is raised if any of the FTU fan fails.

ONT20PS



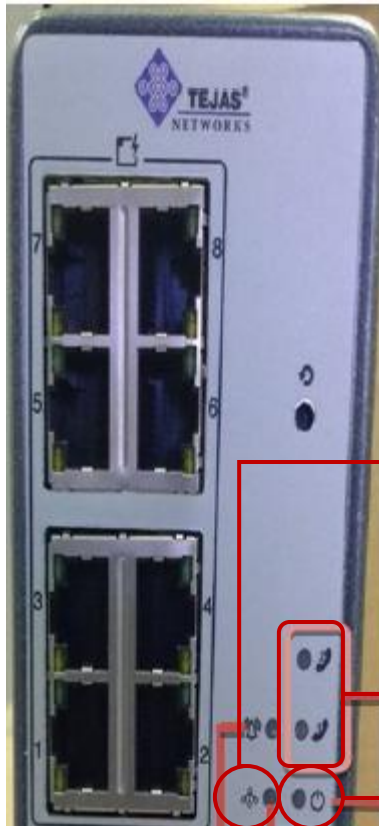
Symbol For Ethernet with PoE.
All ports support PoE or PoE+
Max POE power-120W

Push button Switch

Ethernet Port Number:
8 ports with data rates
10/100/1000 Mbps each
are available

Earthing point

ONT20PS LED status

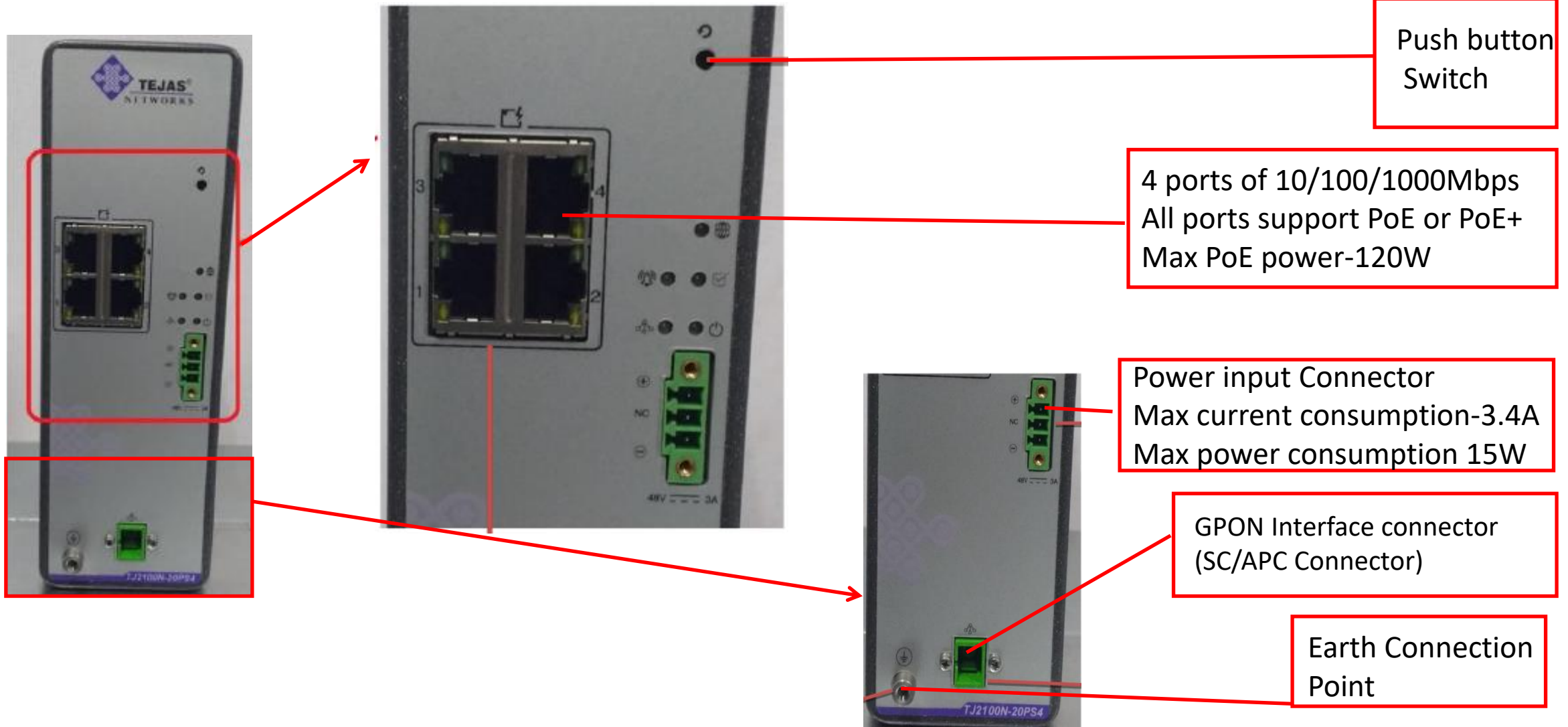


POTS port status indication

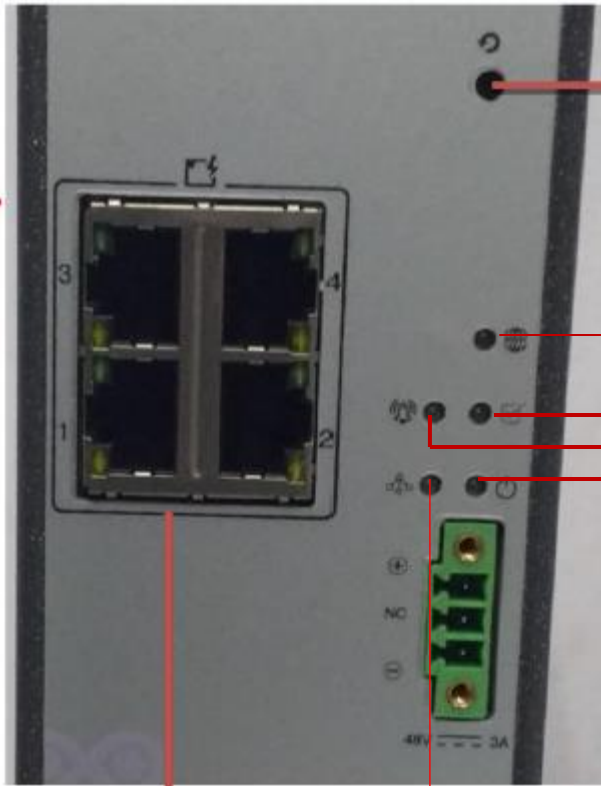
POTS port status indication
OFF-VoIP Port is not enabled/ Receiver is on-hook
GREEN - VoIP Port is not enabled/ Receiver is OFF-hook

Power LED
OFF - ONT's power is down
GREEN - ONT is powered ON

TJ2100N-20PS4



TJ2100N-20PS4 LED status



Internet Status LED
OFF - HSI is not available
GREEN - HSI is available

Board status LED
OFF - Board is not booted or Not in known operating state
GREEN - Board is booted or in known operating state

Power LED
OFF - ONT's power is down
GREEN -ONT is powered ON

Alarm Indication
RED -Alarm is present
GREEN -No Alarm is present

PoN Port Status Indication
OFF -PoN Link is down
GREEN-PoN Link is up and it is ONT is in Operation state (O5)



THANK YOU