



V-Series

Reimagine Your Edge

PON OLT V5808/V5816

Mini GPON OLTs for small passive optical networks



DZS V5808 (top) and V5816 (bottom)

Features & Benefits

- + 8/16 GPON ports
- + Uplink 4x 10/1 GbE (SFP+), 4x 1 GbE (electrical)
- + Uplink/subscriber interfaces with 2.5 Gbps downstream and 1.25 Gbps upstream
- + Switching capacity 128 Gbps (V5808) and 168 Gbps (V5816)
- + Cost effective in low density areas
- + Supports IGMP for IPTV applications
- + Management support via the INAS element manager
- + SNMPv2/v3 with remote monitoring and alarming

Network operators increasingly want to provide high-performance broadband services to subscribers in rural areas. With the OLT network nodes V5808 und V5816, network operators can connect subscribers to their network cost efficiently.

Thanks to the small footprint the GPON system is easy to install also in case of limited space.

The interfaces can be flexibly adapted to the network requirements.

Interfaces

V5808 und V5816 are compact GPON OLTs, providing 8 respectively 16 GPON ports. They enable network operators to provide optical fibre based broadband services also in low density areas

with a minimum of investment. For the uplink it offers four SFP+-based 10/1 GbE and four electrical GbE ports.

All interfaces are accessible on the front of the robust 1 HU high network node. Both mini OLTs fulfil the high requirements of network operators regarding flexibility and availability.

The redundant power supply protects the OLTs of failures in case of power breakdowns and ensures an uninterrupted operation. The PON layer is terminated on the V5808 und V5816 and translated to an Ethernet uplink in order to be transported through an Ethernet/IP environment. Both OLTs are deliverable with AC or DC power supplies.



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PON benefits

V5808 and V5816 offer cost-efficient FTTx services thanks to the point-to-multipoint concept realised with PON technology.

The use of passive optical splitters in opposite to active switch systems makes passive optical networks a cost-efficient solution.

Network architecture

The mini GPON OLTs offer all needed adaption functions for providing a wide range of service like Ethernet, IP telephony and IP-based video services.

For IPTV applications the OLTs support IGMP. Adding or remov-

ing ONUs from the splitter does not affect the PON service.

Up to 128 termination points can be connected to each GPON port via the splitter.

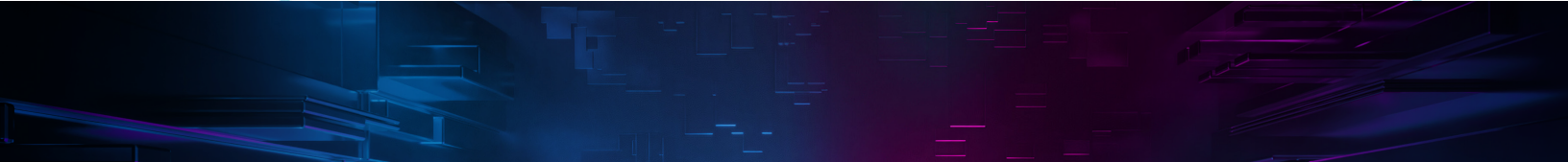
There are different deployment topologies for PON networks possible, which differentiate themselves from the place the optical fibre is terminated. Depending on the subscriber type and desired network topology, the operator may adopt FTTH, FTTB or FTTC.

In case of very high bandwidth requirements of a user, single users can be connected without a splitter. Thus, data rates of up to 2.5 Gbps downstream and 1.25 Gbps upstream can be realised.

Management

V5808 and V5816 are managed via the INAS element manager.

In addition SNMPv2/v3 for alarming and remote management is available.



Technical data

General	
Function	GPON OLT
Number of GPON Interfaces	V5808: 8, V5816: 16
Switch capacity	V5808: 128 Gbps, V5816: 168 Gbps
GPON interfaces	
Standard	ITU-T G.984
Laser type	Laser diode Class 1 (defined in IEC 60825-1)
Transmission range	Up to 20 km (Class B+ SFPs), up to 30 km (Class C+ SFPs)
GPON OLT compliancy	Class B+ according to ITU-T G.984.2, Class C+ according to ITU-T G.984.2
Network interfaces	
Interfaces	Optical: 4 x 1/10GBase-R (SFP+); electrical: 4 x 1 GbE (RJ45)
Standards supported	Standard Ethernet bridging, 802.3ad link aggregation based on MAC, 4k active VLANs, flow control
Spanning Tree Protocol supported	STP, RSTP, MSTP
Layer-3 features	1.5k/768 routing entries for IPv4/IPv6, 512/512 LPM for IPv4/IPv6, OSPFv2, BGPv4, Virtual Router Redundancy Protocol (VRRP) static routing
Multicast features	IGMPv1/v2/v3, IGMP snooping, IGMP filtering and throttling, Multicast VLAN Registration (MVR), 1k L2 Multicast
Cyber security	
Standards supported	Storm control, 802.1x Radius, TACACS+ authentication, Secure Shell (SSH)
Management	
Ethernet Interface for local management	10/100/1000Base-T (RJ45)
Other interfaces	Serial: RS-232; external: 1 x USB 2.0
Standards supported	Serial/Telnet (CLI), SNMPv1/v2/v3, DHCP server, client, relay with option 82, RMON (remote monitoring), syslog, port mirroring
ONT management	ITU-T G.984.4 ONT Management and Control Interface (OMCI); remote ONT/ONU management; automatic ONT ranging
Mechanics	
Dimensions (W x H x D)	440 mm x 44 mm x 300 mm
Power supply	
Input voltage	-48/60 V DC; 100-240 V AC (50/60 Hz)
Operation environment	
Operation temperature	-20 to 60°C
Humidity	0 % to 90 % (non-condensing)



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