DZS

V2-LC-NGPC16-5

V2-LC-NGPC16-5 Combination GPON / XGS-PON Line Card

Introducing the Ultimate in FTTx Flexibility:

A new generation Any-PON-Any-Port (APAP) line card with flexibility to choose GPON, XGS-PON or GPON+XGS-PON (Combo) on a per port basis.

Features & Benefits

+ 16-port GPON / XGS-PON / Combo line card

+ APAP on a per-port basis

+ Ports configurable as 10GbE (AE)

+ On-board 2 x 100G ports

+ ITU-T Standards compliant

+ Industry-leading traffic management provides QoS, traffic shaping, and dynamic bandwidth allocation for triple-play services

+ Full range of management options including SNMP, CLI, ZMS and OSS Gateway

The V2-LC-NGPC16-5 is the latest addition to our portfolio of line cards for use in the MXK-F™ family of OLT chassis. This new generation Any-PON-Any-Port (APAP) line card can support 16 interfaces for GPON, XGS-PON or GPON + XGS-PON (Combo) on a per port basis, in a single-slot card design. In addition, any of the ports can be configured as 10GE for Active Ethernet access.

The V2-LC-NGPC16-5 enables service providers to add new 10Gig services alongside GPON to offer choice and keep pace with growth demands. Cost-effective 10Gig is becoming an opportunity in business and mobile xHaul applications, and even in some residential applications.

The V2-LC-NGPC16-5 can be deployed in MXK-F219, F1419 and F1421 chassis. It provides up to 256 OLT ports in one MXK-F1421 chassis.

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The Ultimate in Density and Flexibility

With 128 splits per PON, one MXK-F1421 chassis fully equipped with V2-LC-NGPC16-5 line cards can support up to 32K ONTs concurrently. The APAP line card allows maximum flexibility for operators as they transition through different generations of fiber access technologies. It allows them to leverage the existing ODN to offer higher bandwidth XGS-PON services to businesses and homes, or for mobile xHaul. With the co-existence of standard GPON and XGS-PON on the same PON, the service providers can significantly increase the bandwidth for select customers or sites in a cost-effective manner.

The two 100G ports on the card offers additional uplink capacity and flexibility on how traffic is aggregated. The option of configuring the any port as 10GE further expands the service offering capability. Any of the 16 ports can be configured, in a group of 4. 10GE operation on the line card and used for access or subtending other devices. Until now, the flexibility to add 10gig services to your network required some sort of trade-off in efficiency, density, cost, or all of the above. With the new DZS APAP line card, YOU define the rules. For more information, go to https://dzsi.com/fttx/.

Features, Protocols, Interfaces

Dimensions

+ 4.90" x 0.87" x 8.33"
+ 378mm x 22mm x 212mm

Interfaces

+ Subscriber Line Interfaces: (16 SFP+) GPON, XGS-PON, Combo
+ Two 100G (QSFP28) Ports

Power Requirement

+ Average: 156W
+ Maximum: 220W

Protocol Support

+ ITU-T G.984, G.987, G.9807
+ Bridging 802.1D
+ VLAN 802.1Q with 802.1p
+ IGMP
+ IGMP Snooping with Proxy reporting
+ Broadcast Storm Protection
+ Bridge Loop Protection
+ Transparent L2/L3 VPN for business services

Regulatory Compliance

+ Safety
  ○ EN 62368-1
  ○ UL 62368-1
+ EMC Emissions / Immunity
  ○ FCC Part 15 Class A
  ○ EN 55022 Class A
  ○ ICES-003 Class A
  ○ EN 300 386

Environmental

+ Ambient Operating Temperature: -40°C to 65°C
+ Relative Humidity: Up to 85%, non-condensing

Ordering Information

Model	Description
V2-LC-NGPC16-5	ROHS, REQ MIN. XXX. (16) 10/10 XGS-PON+GPON COMBO (COEXISTENCE) PORT LC, SINGLE SLOT (REQ SFP+ XCVRS)
XGS-GP-COMBO-SFP+-B+-N1-OLT-C	XGSPON & GPON COMBO OLT CLASS N1&B+ SFP, 1577/1270NM, 1490/1310NM IRSSI, ROHS, C-TEMP
XCVR-XGS-SFP+-N2-RSSI-C	XGSPON OLT 10G SFP+, 1577NM CW MODE DOWN, 1270NM APD/TIA UP, C TEMP, RSSI
XCVR-XGS-SFP+-N2-RSSI-I	XGSPON OLT 10G SFP+, 1577NM CW MODE DOWN, 1270NM APD/TIA UP, I TEMP, RSSI
XGS-GP-COMBO-SFP+-C+-N2-OLT-C	XGSPON/GPON OLT 10G CEX SFP+, 1577TX 10G, 1490TX 2.5G, 1270RX 10/2.4G, 1310 1.24G, N2 COMBO QUADPLXR

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