

## V2-LC-NGPC16-5



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

A new generation XCellerate™ line card with the 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
- + Any 10G service on any port on a per-port basis
- + Ports configurable as 10GbE (AE)
- + On-board 2 x 100G uplink ports
- + ITU-T Standards compliant

The V2-LC-NGPC16-5 is the latest addition to our portfolio of line cards for use in the MXK-F or Vx series OLT chassis. This new generation XCellerate™ 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 growing bandwidth demands. Cost effective 10Gig offers an opportunity for revenue growth in business and mobile xHaul applications beyond traditional residential applications with a common fiber network.

The V2-LC-NGPC16-5 can be deployed in MXK-F219/V2 F1419/V14 and F1421/V16 chassis. It provides up to 256 OLT ports in one MXK-F1421/V16 chassis.

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## The Ultimate in Density and Flexibility

With 128 splits per PON, one MXK-F1421/V16 chassis fully equipped with V2-LC-NGPC16-5 line card can support up to 32K ONTs concurrently. The XCelebrate™ 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 XCelebrate™ line card, YOU define the rules.

## Key Service Attributes

- + FSAN ITU-T G.984 GPON compliant, Class B+ and Class C+ SFP optics with RSSI
- + XGS-PON ITU-T G.9807.1-compliant interface, Class N1 and N2
- + Type-B redundancy support
- + Sixteen SFP+ combo interfaces, GPON, 1GigE, XGS-PON or 10GigE
- + Two 100G QSFP28 Ethernet interfaces
- + Traffic management provides QoS, traffic shaping
- + Layer 2 and Layer 3 features, video replication and security
- + Support of Radius proxy, 802.1x, LLDP
- + IPTV multicast, IGMPv2 and IGMPv3 services

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## Features, Protocols, Interfaces

### Interfaces

- + Subscriber Line Interfaces: GPON, XGS-PON, Combo, and 10GE SFP+
- + Two 100G (QSFP28) or 40G (QSFP+)

### 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
- + DHCP Relay & DHCP Option 82
- + PPPoE with Intermediate Agent
- + Broadcast Storm Protection
- + Bridge Loop Protection
- + Transparent L2/L3 VPN for business services

### Regulatory Compliance

- + Safety
  - + EN 62368-1
  - + UL 62368-1
  - + CAN/CSA C22.2 No. 62638-1
- + EMC Emissions / Immunity
  - + FCC Part 15 Class A
  - + EN 55022 Class A
  - + CES-003 Class A
  - + EN 300 386

## Physical & Environmental Specifications

Dimensions (W x H x D)	378mm x 22mm x 212mm
Operating temperature	-40~149°F (-40~65°C)
Storage temperature	-40~158°F (-40~70°C)
Operating humidity	5 to 85 % (non-condensing)

Altitude:	-200ft to 16,500ft (-60m to 5,000m)
Power Requirements	Average 156W typical
Maximum Power	220W

# Ordering Information

## Bases

<b>V2-LC-NGPC16-5</b>	ROHS, REQ MIN. XXX. (16) 10/10 XGS-PON+GPON COMBO (COEXISTENCE) PORT LC, SINGLE SLOT (REQ SFP+ XCVRS)
<b>GS-GP-COMBO-SFP+-B+-N1-OLT-C</b>	XGSPON & GPON COMBO OLT CLASS N1&B+ SFP, 1577/1270NM, 1490/1310NM IRSSI, ROHS, C-TEMP,
<b>CVR-XGS-SFP+-N2-RSSI-C</b>	XGSPON OLT 10G SFP+, 1577NM CW MODE DOWN,1270NM APD/TIA UP, C TEMP, RSSI
<b>XCVR-XGS-SFP+-N2-RSSI-I</b>	XGSPON OLT 10G SFP+, 1577NM CW MODE DOWN,1270NM APD/TIA UP, I TEMP, RSSI
<b>XGS-GP-COMBO-SFP+-C+-N2-OLT-C</b>	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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