

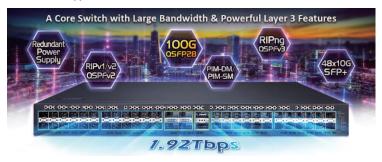
Layer 3 48-Port 10G SFP+ + 2-Port 40G QSFP+ + 4-Port 100G QSFP28 Managed Switch



Powerful 100Gbps Solution for All Long-Reach Networks

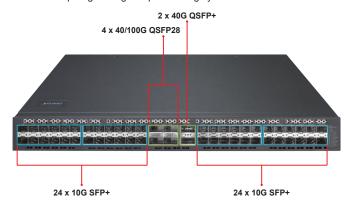
PLANET XGS-6350-48X2Q4C is a High-performance Layer 3 Managed Switch that meets the next-generation Metro, Data Center, Campus and Enterprise network requirements. It has high-density **48 10G SFP+**, **2 40G QSFP+** and **4 40G/100GbE QSFP28** fiber interfaces delivered in a 1RU rugged case.

The administrator can flexibly choose the suitable transceivers according to the transmission distance or the transmission speed required to extend the **1G/10G/40G/100G** network efficiently. Besides, with **1.92Tbps** switching capacity, the XGS-6350-48X2Q4C can handle extremely large amounts of data in a secure topology linking to backbone or high capacity servers where audio, video streaming and multicast applications are utilized.



Extractive Power Supply Design to Increase Flexibilty

The XGS-6350-48X2Q4C is equipped with one extractive 100~240V AC power supply unit, so it is easy to replace the power for users. Besides, the XGS-6350-48X2Q4C reserves another backup power slot on the rear panel where the second AC or DC power can be added to make it a redundant power supply. The redundant power system is specifically designed to handle the demands of high-tech facilities requiring the highest power integrity.



Physical Ports

- 48 10GBASE-SR/LR SFP+ slots, compatible with 1000BASE-SX/LX/BX SFP
- 2 QSFP+ slots with each supporting 40G and 4 x 10
 Gigabit Ethernet modes
- 4 QSFP28 slots with each supporting native 100 Gigabit Ethernet, 40G and 4 x 10 Gigabit Ethernet modes
- RJ45 to DB9 console interface for switch basic management and setup
- · MNG port for HTTP server access
- · USB port

IPv4 Features

- · Static Routing, RIP v1/v2, OSPF and BGP
- · Policy Routing
- · BFD for OSPF and BGP

IPv6 Features

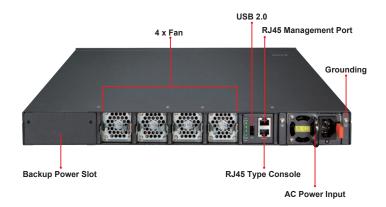
- ICMPv6, DHCPv6, ACLv6,IPv6 Telnet
- · IPv6 Neighbor Discovery
- · Path MTU Discovery
- · MLD and MLD Snooping
- IPv6 Static Routing, RIPng, OSPFv3 and BGP4+
- · Manual Tunnel, ISATAP Tunnel and 6-to-4 Tunnel

Multicast Routing Features

- · Supports Multicast Routing Protocols:
 - PIM-DM (Protocol Independent Multicast Dense Mode)
 - PIM-SM (Protocol Independent Multicast Sparse Mode)
 - PIM-SSM (Protocol Independent Multicast Source-Specific Multicast Mode)
- Supports IGMP v1/v2/v3

Layer 2 Features

- · Supports VLAN
 - IEEE 802.1Q tag-based VLAN
 - Provider Bridging (VLAN Q-in-Q, IEEE 802.1ad) supported
 - GVRP for dynamic VLAN management
 - Private VLAN
- Supports Link Aggregation
 - 802.3ad Link Aggregation Control Protocol (LACP)



Rich Multi-layer Networking Protocols

The XGS-6350-48X2Q4C comes with the complete Layer 3 managed function with comprehensive protocols and applications to facilitate the rapid service deployment and management for both the traditional L2 and L3 networks. With support for advanced features, including RIP, RIPng, OSPFv2, OSPFv3, BGP, BGP4+, etc., this switch is ideal for the traditional or fully-virtualized data center.

Strong Multicast

The XGS-6350-48X2Q4C supports abundant multicast features. In Layer 2, it features IPv4 IGMPv1/v2/v3 snooping and IPv6 MLD v1/v2 snooping. With Multicast VLAN Registration (MVR), multicast receiver/sender control and illegal multicast source detection functions can be had. In Layer 3 multicast protocols, it features **PIM-DM**, **PIM-SM** and **PIM-SSM** which make the XGS-6350-48X2Q4C great for any robust networking.

Full IPv6 Support

The XGS-6350-48X2Q4C supports **IPv4-to-IPv6 technologies including IPv4 manual/automatic tunnel**, IPv6-to-IPv4 tunnel, and Intra-Site Automatic Tunnel Addressing Protocol (**ISATAP**) tunnel. It comprehensively supports IPv6 Neighbor Discovery, DHCPv6, Path MTU Discovery, IPv6-based Telnet, SSH and ACL, meeting the need of IPv6 network device management and service control.

High Reliability

The key components of the XGS-6350-48X2Q4C such as management module, power system and the fan system support redundancy design. All system modules support hot-swap and seamless switching without manual intervention.

It supports In-service Software Upgrade (ISSU) and Graceful Restart (GR) for OSPF/BGP routing protocol, guaranteeing the user data non-stop forwarding when the system is upgrading. It supports Bidirectional Forwarding Detection (BFD) that realizes fault detection and service recovery in seconds through linking with Layer 2 or Layer 3 protocol.

Excellent and Secure Traffic Control

The XGS-6350-48X2Q4C is loaded with powerful traffic management and WRR features to enhance services offered by telecoms and enterprises. The WRR functionalities include wire-speed Layer 4 traffic classifiers and bandwidth limitation which are particularly useful for multi-tenant unit, multi-business unit, Telco, or network service applications.

- Cisco ether-channel (static trunk)
- · Supports Spanning Tree Protocol
 - STP, IEEE 802.1D (Classic Spanning Tree Protocol)
 - RSTP, IEEE 802.1w (Rapid Spanning Tree Protocol)
 - MSTP, IEEE 802.1s (Multiple Spanning Tree Protocol, spanning tree by VLAN)
- Port mirroring to monitor the incoming or outgoing traffic on a particular port (many to 1)
- · Loop protection to avoid broadcast loops
- · Link Layer Discovery Protocol (LLDP)
- Ethernet OAM 802.3ah/802.1ag/ITU-Y.1731

Quality of Service

- Ingress shaper and egress rate limit per port bandwidth control
- · 8 priority queues on all switch ports
 - IEEE 802.1p CoS/DSCP/Precedence
 - VLAN ID
 - Policy-based ingress and egress QoS

Multicast

- Supports IPv4 IGMP snooping v1, v2 and v3
- · Supports IPv6 MLD snooping v1 and v2
- Querier mode support
- MVR (Multicast VLAN Registration)

Security

- Authentication
 - IEEE 802.1x port-based network access authentication
 - Built-in RADIUS client to cooperate with the RADIUS servers
 - RADIUS/TACACS+ users access authentication
- · Access Control List
 - IP-based Access Control List (ACL)
 - MAC-based Access Control List (ACL)
 - Time-based ACL
- · DHCP Snooping to filter distrusted DHCP messages
- Dynamic ARP Inspection discards ARP packets with invalid MAC address to IP address binding
- · IP Source Guard prevents IP spoofing attacks

Management

- · IPv4 and IPv6 dual stack management
- · Switch Management Interfaces
 - Console and Telnet Command Line Interface
 - HTTP web switch management

Powerful Security from Layer 2 to Layer 4

The ACL policies supported can classify the traffic by source/destination IP addresses, source/destination MAC addresses, IP protocols, TCP/UDP, IP precedence, time ranges and ToS. Moreover, various policies can be conducted to forward the traffic. The XGS-6350-48X2Q4C also provides IEEE 802.1x port-based access authentication, which can be deployed with RADIUS, to ensure the port level security and block illegal users. Thus, the XGS-6350-48X2Q4C empowers enterprises and campuses to take full advantage of the limited network resources and guarantees the best performance in VoIP and video conferencing transmissions.

Robust Layer 2 Features

The XGS-6350-48X2Q4C can be programmed for basic switch management functions such as port speed configuration, port aggregation, VLAN, Spanning Tree Protocol, WRR, bandwidth control and IGMP snooping. It also supports 802.1Q tagged VLAN, Q-in-Q, voice VLAN and GVRP Protocol. In addition, the number of VLAN interfaces is 1K and the number of VLAN IDs is 4K. By supporting port aggregation, the XGS-6350-48X2Q4C allows the operation of a high-speed trunk combined with multiple ports, making it an LACP link aggregation.

Efficient and Secure Management

For efficient management, the XGS-6350-48X2Q4C Managed 100Gigabit Switch is equipped with console, Web and SNMP management interfaces.

- With its built-in Web-based management interface, the XGS-6350-48X2Q4C offers an easy-to-use, platform-independent management and configuration facility.
- The XGS-6350-48X2Q4C supports standard Simple Network Management Protocol (SNMP) and can be managed via any standard-based management software.
- For reducing product learning time, the XGS-6350-48X2Q4C offers Cisco-like command via Telnet or console port. Moreover, the XGS-6350-48X2Q4C offers secure remote management by supporting SSH connection which encrypts the packet content at each session.

Centralized Hardware Stacking Management

Several XGS-6350-48X2Q4C switches can be used to build a virtually logical facility. The XGS-6350-48X2Q4C gives the enterprises, service providers and telecoms flexible control over port density, uplinks and switch stack performance. The XGS-6350-48X2Q4C can connect as a ring for redundancy and ensures that data integrity is retained even if one switch in the stack fails. You can even hotswap switches without disrupting the network, which greatly simplifies the tasks of upgrading the LAN for catering to increasing bandwidth demands.

Flexibility and Extension Solution

The XGS-6350-48X2Q4C provides forty-eight 10Gbps SFP+, two 40Gbps QSFP+ and four 100Gbps QSFP28 Fiber interfaces. Each of the SFP+ slots support **Dual Speed**, **10GBASE-SR/LR** or **1000BASE-SX/LX** and each of the QSFP28 slots supports native **100 Gigabit Ethernet**, **40G and 4 x 10 Gigabit Ethernet modes**. Therefore, the administrator can flexibly choose the suitable SFP transceiver

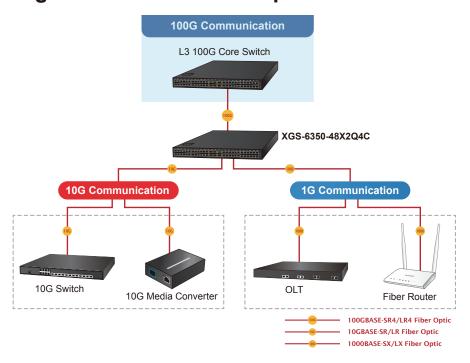
- SNMP v1 and v2c switch management
- SSHv2, SSLv3, TLSv1.0 and SNMP v3 secure access
- · SNMP Management
 - Four RMON groups (history, statistics, alarms, and events)
 - SNMP trap for interface Link Up and Link Down notification
- · Built-in Trivial File Transfer Protocol (TFTP) client
- · BOOTP and DHCP for IP address assignment
- · System Maintenance
 - Firmware upload/download via HTTP
 - Reset button for system reboot or reset to factory default
 - Dual images
- DHCP Functions:
 - DHCP Relay
 - DHCP Option 82
 - DHCP Server
- · User Privilege levels control
- · Network Time Protocol (NTP), SPAN, RSPAN
- · Network Diagnostic
 - SFP-DDM (Digital Diagnostic Monitor)
 - ICMP remote IP ping
- · Syslog remote alarm
- · System Log

Stacking Management

- Virtualized multiple XGS-6350-48X2Q4C switches integrated into one logical device
- Single IP address stack management, supporting up to 2 hardware units stacked together
- Stacking architecture supports redundant Ring mode

according to not only the transmission distance, but also the transmission speed required. The distance can be extended from 550 meters to 2km (multi-mode fiber) or up to 10/20/30/40/50/70/120 km (single-mode fiber or WDM fiber). They are well suited for applications within the enterprise data centers and distributions.

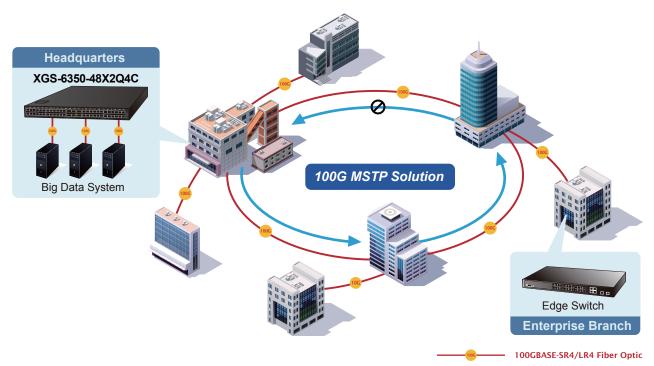
High Performance 100Gbps Server Service



Applications

High Availability Mesh Networking Solution for Big Data System

By means of improving the technology of Optical Fiber Ethernet with highly-flexible, highly-extendable and easy-to-install features, the XGS-6350-48X2Q4C offers up to **1.92Tbps** data exchange speed via Optical Fiber interface and the transmission distance can be extended to 120km (single-mode fiber). The XGS-6350-48X2Q4C features strong rapid self-recovery capability to prevent interruptions and external intrusions. It incorporates **Multiple Spanning Tree Protocol (802.1s MSTP)** into customer's automation network to enhance system reliability and uptime. The XGS-6350-48X2Q4C is the ideal solution for data centers, service providers and telecoms to build redundant connection and establish high bandwidth for Big Data server farm.

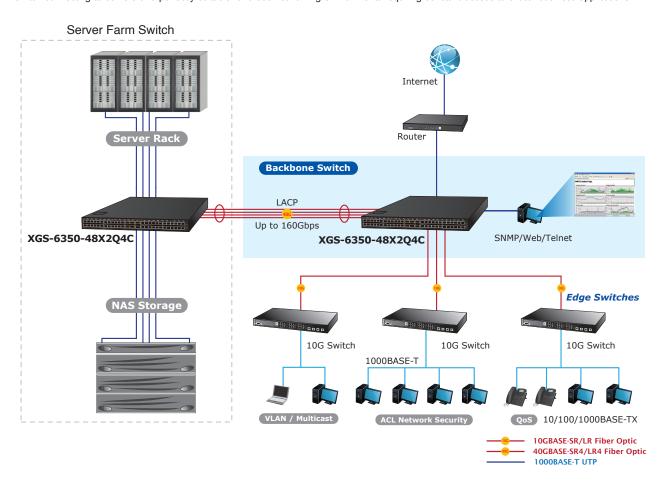


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Reliable, High-performance and High-density Enterprise Backbone Switch

40/100 Gigabit Ethernet supported equipment has become the fundamental unit of enterprises and network servers. PLANET XGS-6350-48X2Q4C is the cost-effective, high-density and high-bandwidth chassis switch, which meets today's market requirements. Its dedicated chassis architecture feature makes all modules in the platform operate together as one much larger switch providing multiple high-performance 40/100-Gigabit Ethernet network for backbone of enterprises, campuses or telecoms.

The redundant management modules and three power supplies provide the XGS-6350-48X2Q4C with nonstop network service ability. Moreover, all modules are hot-swappable. They can be added or exchanged without interrupting the operation of the whole system. The XGS-6350-48X2Q4C is ideal for being a server farm switch connecting to servers and perfectly suitable for those networking environments requiring constant access to critical business applications.



Specifications

2	VOC 2050 40V00 40
Product	XGS-6350-48X2Q4C
Hardware Specifications	
QSFP28 Interfaces	4, each supports native 100/40 Gigabit Ethernet and 4 x 10 Gigabit Ethernet modes
QSFP+ Interfaces	2, each supports 40 Gigabit Ethernet and 4 x 10 Gigabit Ethernet modes
SFP+ Interfaces	48 10GBASE-SR/LR SFP+ interfaces
	Compatible with 1000BASE-SX/LX/BX SFP transceiver
MNG	1 x 10/100/1000Base-T RJ45 port
Console	1 x RJ45-to-DB9 serial port (9600, 8, N, 1)
USB	1 x USB 2.0
LED Indicators	System: PWRA, PWRB, Green SYS, Green MNG, Green Ports: 10G SFP+ interfaces: LNK/ACT, Green 40G/100G QSFP28 interfaces: LNK/ACT, Green 40G QSFP+ interfaces: LNK/ACT, Green
Dimensions (W x D x H)	442 x 404 x 44, 1U height
Weight	8.8kg
Power Consumption	147 watts/504.3 BTU (maximum)
Power Requirements	AC 100~240V, 50/60Hz DC 36~72V (optional)
Fan	4
Switching Performance	
Switch Architecture	Store-and-forward
Switch Capacity	1.92Tbps/non-blocking
Switch Throughput	1440Mpps@64bytes
Address Table	64K MAC address table with auto learning function
Shared Data Buffer	9MB
Shared Data Buller	
Flow Control	Back pressure for half duplex IEEE 802.3x pause frame for full duplex
Jumbo Frame	9K
IPv4 Layer 3 Functions	
ii va Layer o'r unellens	RIP v1/v2
IP Routing Protocol	OSPFv2 BGP (Border Gateway Protocol) Static routing
Multicast Routing Protocol	PIM-DM and PIM-SM PIM-SSM
Routing Features	VRRP Policy routing Load balance through equal-cost routing BFD (Bidirectional Forwarding Detection) for OSPF and BGP
IPv6 Layer 3 Functions	
IP Routing Protocol	RIPng OSPFv3 BGP4+
Routing Features	Manual tunnel ISATAP tunnel 6-to-4 tunnel
IPv6 Functions	ICMPv6, DHCPv6, ACLv6, IPv6 Telnet IPv6 Neighbor Discovery Path MTU Discovery
Layer 2 Function	
Port Configuration	Port disable/enable Auto-negotiation 10/100/1000Mbps full and half duplex mode selection Flow control disable/enable Bandwidth control on each port Port loopback detect

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RFC 2454 UDP6 MIB RFC 2465 IPv6 MIB	
RFC 2465 IPv6 MIB	
RFC 2466 ICMP6 MIB	
RFC 2573 SNMPv3 notification	
RFC 2574 SNMPv3 VACM	
RFC 2674 Bridge MIB Extensions	
Standard Conformance	
Regulatory Compliance FCC Part 15 Class A, CE	
IEEE 802.3z Gigabit 1000BASE-SX/LX	
IEEE 802.3ae 10Gb/s Ethernet	
IEEE 802.3x flow control and back pressure	
IEEE 802.3ad port trunk with LACP	
IEEE 802.1D Spanning Tree Protocol	
IEEE 802.1w Rapid Spanning Tree Protocol	
IEEE 802.1s Multiple Spanning Tree Protocol	
IEEE 802.1p Class of Service	
IEEE 802.1Q VLAN tagging	
IEEE 802.1X port authentication network control	
IEEE 802.1ab LLDP	
Standards Compliance RFC 768 UDP	
RFC 793 TFTP	
RFC 791 IP	
RFC 792 ICMP	
RFC 2068 HTTP	
RFC 1112 IGMP v1	
RFC 2236 IGMP v2	
RFC 3376 IGMP v3	
RFC 2710 MLD v1	
FRC 3810 MLD v2	
RFC 2328 OSPF v2	
RFC 1058 RIP v1	
RFC 2453 RIP v2	
Environments	
Temperature: 0 ~ 50 degrees C	
Operating Relative Humidity: 10 ~ 85% (non-condensing)	
Temperature: -40 ~ 80 degrees C	
Storage Relative Humidity: 5 ~ 95% (non-condensing)	
Acidate Fidilialty. 3 3070 (Horr-condensing)	

Ordering Information

XGS-6350-48X2Q4C Layer 3 48-Port 10G SFP+ + 2-Port 40G QSFP+ + 4-Port 100G QSFP28 Managed Switch

Related Products

XGS-6350-24X4C	Layer 3 24-Port 10G SFP+ + 4-Port 100G QSFP28 Managed Switch
XGS-6350-12X8TR	Layer 3 12-Port 10G SFP+ + 8-Port 10/100/1000T Managed Switch



Direktronik AB tel. 08-52 400 700 www.direktronik.se



Gigabit Ethernet Transceiver (1000BASE-BX, Single Fiber Bi-directional SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.					
MGB-LA10(V2)	VEC	YES	1000	WDM(LC)	Cinalo Modo	101.00	1310nm	1550nm	0 00 danas 0				
MGB-LB10(V2)	IES	1000	WDM(LC)	Single Mode	ode 10km	1550nm	1310nm	0 ~ 60 degrees C					
MGB-LA20(V2)	YES	VEC	VEC	VEC	VEC	\/F0	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MGB-LB20(V2)	IES	1000	VVDIVI(LC)	Sirigle Mode	ZUKIII	1550nm	1310nm	0 ~ 60 degrees C					
MGB-LA40(V2)	VEC	1000	WDM/LC)	Single Mede	40km	1310nm	1550nm	0 00 de mas o					
MGB-LB40(V2)	IES	YES 1000 WDM(LC) Single Mode 40km	408111	1550nm	1310nm	0 ~ 60 degrees C							
MGB-LA80	YES	YES	YES 1000 WDM(LC) Single Mode 80km	MDM(LC)	Circula Mada	001	1490nm	1550nm	0 00 4 0				
MGB-LB80				OUKIII	1550nm	1490nm	0 ~ 60 degrees C						
MGB-TLA10(V2)	YES	VEC	1000	1000 WDM(LC) Single Mode 10km	1310nm	1550nm	-40 ~ 75 degrees C						
MGB-TLB10(V2)		1000 VVL	VVDIVI(LC)	Sirigle Mode	IOKIII	1550nm	1310nm	-40 - 75 degrees C					
MGB-TLA20	YES	GB-TLA20	1000	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 75 degrees C				
MGB-TLB20		1000	VVDIVI(LC)	Sirigle Mode	ZUKIII	1550nm	1310nm	-40 - 75 degrees C					
MGB-TLA40	YES	VEC	1000	WDM(LC)	Cinala Mada	401	1310nm	1550nm	-40 ~ 75 degrees C				
MGB-TLB40		1000	VVDIVI(LC)	Single Mode	40km	1550nm	1310nm	-40 - 75 degrees C					
MGB-TLA80	VEC	YES 1000 WDM(LC) Single Mode 80km	Cinala Mada	001000	1490nm	1550nm	40 . 75 dogrado C						
MGB-TLB80	YES		OUKIII	1550nm	1490nm	-40 ~ 75 degrees C							

Fast Ethernet Transceiver (100BASE-X SFP)

Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (nm)	Operating Temp.
MFB-FX	-	100	LC	Multi Mode	2km	1310nm	0 ~ 60 degrees C
MFB-F20	-	100	LC	Single Mode	20km	1310nm	0 ~ 60 degrees C
MFB-F40	-	100	LC	Single Mode	40km	1310nm	0 ~ 60 degrees C
MFB-F60	-	100	LC	Single Mode	60km	1310nm	0 ~ 60 degrees C
MFB-F120	-	100	LC	Single Mode	120km	1550nm	0 ~ 60 degrees C
MFB-TFX	-	100	LC	Multi Mode	2km	1310nm	-40 ~ 75 degrees C
MFB-TF20	-	100	LC	Single Mode	20km	1310nm	-40 ~ 75 degrees C

Fast Ethernet Transceiver (100BASE-BX, Single Fiber Bi-directional SFP)

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Model	DDM	Speed (Mbps)	Connector Interface	Fiber Mode	Distance	Wavelength (TX)	Wavelength (RX)	Operating Temp.
MFB-FA20	-	100	WDM(LC)	Single Mode	20km	1310nm	1550nm	0 ~ 60 degrees C
MFB-FB20	-	100	WDM(LC)	Single Mode	20km	1550nm	1310nm	0 ~ 60 degrees C
MFB-TSA	YES	100	WDM(LC)	Multi Mode	2km	1310nm	1550nm	-40 ~ 75 degrees C
MFB-TSB	YES	100	WDM(LC)	Multi Mode	2km	1550nm	1310nm	-40 ~ 75 degrees C
MFB-TFA20	-	100	WDM(LC)	Single Mode	20km	1310nm	1550nm	-40 ~ 75 degrees C
MFB-TFB20	-	100	WDM(LC)	Single Mode	20km	1550nm	1310nm	-40 ~ 75 degrees C
MFB-TFA40	-	100	WDM(LC)	Single Mode	40km	1310nm	1550nm	-40 ~ 75 degrees C
MFB-TFB40	-	100	WDM(LC)	Single Mode	40km	1550nm	1310nm	-40 ~ 75 degrees C

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