

FIBERROAD[®]
Reliable Industrial Network Connectivity



PRODUCT CATALOG 2026

www.fiberroad.com

Follow Us On Social Media



LinkedIn



Facebook



YouTube

CONTENTS

Who We Are & What We Offer	03	Web Smart Ethernet Switches	26
Compact Media Converters	05	Industrial Automation Switches	27
Industrial Media Converters	07	PROFINET Unmanaged Switches	30
PoE Media Converters	08	Unmanaged Ethernet Switches	32
Managed Media Converters	09	PoE Injectors/Relays/Splitters	35
L2+/L3 Managed Ethernet Switches	14	Optical Transport Network	38
L2+/L3 Managed Fiber Switches	23	Network Peripherals	42
		Power Supplies	46

WHO WE ARE ?

At the forefront of innovation in network technology, we are a rapidly growing technology company dedicated to manufacturing professional network connectivity equipment tailored for international markets. With years of extensive experience and relentless research and development focused on Carrier Ethernet and Industrial Ethernet devices specifically designed for Telecom and IoT applications, our team has cultivated an expansive portfolio that addresses the intricate demands of sectors like Industrial 4.0, Smart City and Data Center.

17 YEARS OF ETHERNET CONNECTIVITY

LONG TERM COMMITMENT



Our goal is to provide top-notch value and ensure our customers and partners worldwide succeed with our ethernet solutions. We're all about deep collaboration to make that happen.

RELIABILITY EXCELLENCE



At Fiberroad, we take security seriously. Our team runs constant safety checks on all our products to identify and squash any potential vulnerabilities.

COST EFFICIENCY



Even if you're using Fiberroad devices in an industrial or commercial setting, the interfaces and controls are intuitive enough for just about anyone to pick up and use right away.

WHAT WE OFFER ?

Our product line was created to give our partners a chance to get in on the booming Industrial IoT and edge network connection markets. It includes Ethernet Access devices, Switching and Routing gear, and Optical Transport solutions.



Ethernet Access

- ♦ Industrial Wireless
- ♦ Fiber Media Converter
- ♦ Protocol Converter



Switching & Routing

- ♦ Layer 2 & 3 Industrial Ethernet
- ♦ Ethernet Embedded Modules
- ♦ PTP 1588 & TSN



Optical Transport

- ♦ 100G/400G Optical Transmission
- ♦ Optical Line System



Network Management

- ♦ WebGUI Management
- ♦ PREVIEW NMS
- ♦ FIRO Cloud Management

STRICT QUALITY ASSURANCE

Are you looking for top-quality telecommunication products? Then Fiberroad is the perfect brand that offers high-end solutions to meet your needs. But how does Fiberroad ensure its products are of superior quality and reliability? The answer lies in their rigorous Quality Assurance process, which involves stringent testing at every stage of development. In this blog post, we will take a closer look at the importance of strict testing in Fiberroad's Quality Assurance Process and how it benefits customers who choose their telecommunication products. So buckle up and get ready to learn more about what sets Fiberroad apart from other brands!



3
RESEARCH CENTER

20%
R&D STAFF RATIO

23%
R&D INPUT RATIO

118
SOFTWARE PATENTS

2
PRODUCTION SITES

300K
MONTHLY
MANUFACTURING
CAPACITY



Fast Ethernet Media Converters

Gigabit Ethernet Media Converters



2 Gigabit Ethernet Media Converters

10 Gigabit Ethernet Media Converters



100M - 10G Fiber Converters



Hot Swappable Redundant Power Supply



36W MAX Power Consumption



Efficient Heat Dissipation

Media Converters

- Compact Media Converters
- Industrial Media Converters
- PoE Media Converters
- Managed Media Converters

Compact Media Converters



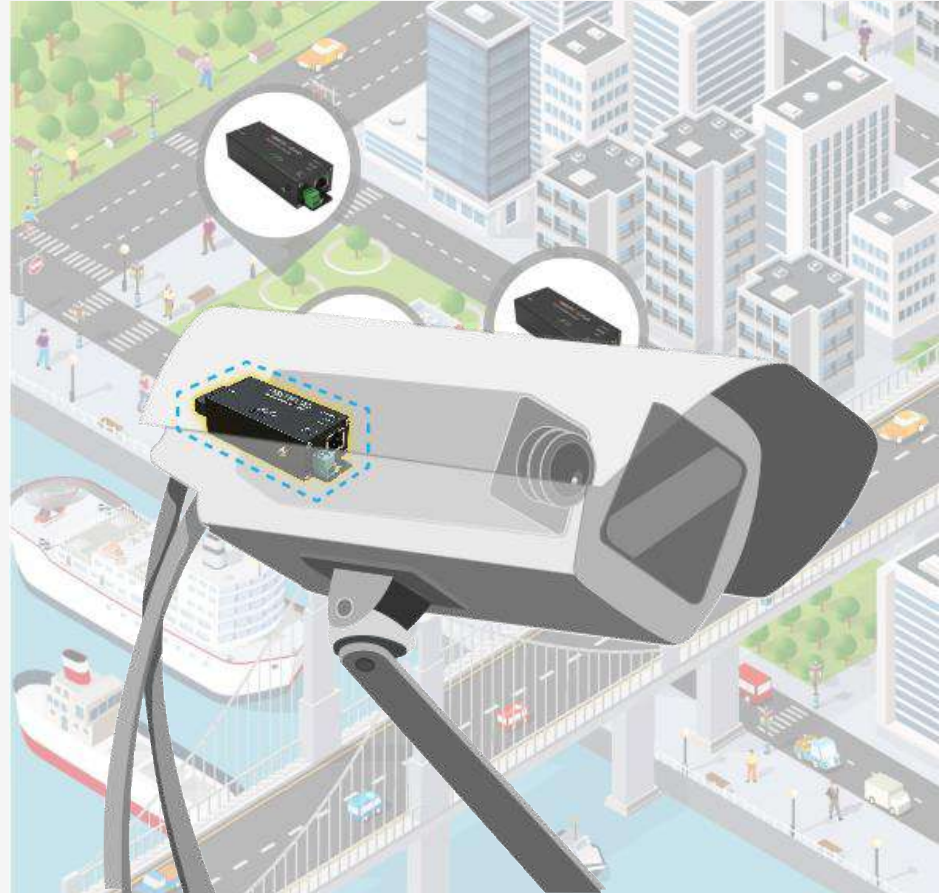
FR-2701-XX

1x10/100M RJ45
1x100M FX
DIP SW: LFPT
DC12V; DC24V; AC24V Power Input
-20°C to +70°C



FR-2703

1x10/100/1000M RJ45
1x1000M SFP Slot
DIP SW: SPEED | ALS | LFPT
DC12V; DC24V; AC24V Power Input
-20°C to +70°C



Compact Media Converters



FR-2222

1x100M/1/2.5/5/10G RJ45
1x10G SFP+ Slot
DIP SW: SPEED | ALS | LFPT
DC5-12V Power Input



FR-2206

2x10/100/1000M RJ45
1x1000M SFP Slot
DIP SW: Jumbo Frame | Port Isolation
DC5-12V Power Input



FR-2201-XX

1x10/100M RJ45
1x100M FX
DIP SW: LFPT | ALS
DC5-12V Power Input



FR-2203-XX

1x10/100/1000M RJ45
1x1000M FX
DIP SW: LFPT | ALS
DC5-12V Power Input

Industrial Media Converters



FR-7N3101/P/BT

RJ45

1x10/100/1000M

SFP/1X9

1x1000M

Jumbo Frame

9K

Power Input

2xDC9-56V

Operating Temp

-40 to +75°C

IP Rating

IP40

Mounting

DIN Rail

Wall Mounting

PoE Standard

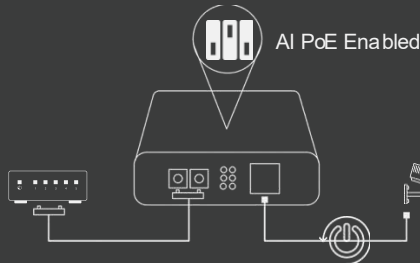
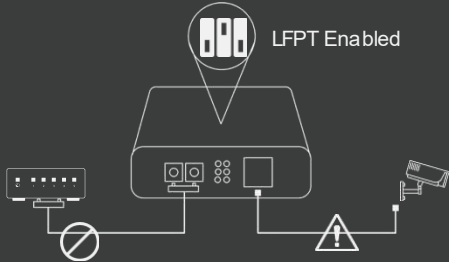
FR-7N3101P: 802.3 af/at

FR-7N3101BT: 802.3 af/at/bt

PoE Media Converters

What Is the DIP Switch on Unmanaged Media Converter?

DIP switch stands for dual in-line package switch. It is a simple and cost-effective component that can help select and change between various hardware or device options. Users just need to toggle each switch between on and off positions to enable and disable certain functions.



FR-POE232

- 1x10/100/1000M RJ45
- 1x1000M SFP Slot
- 802.3 at PoE+ Standard
- LFPT | ALS | FX Reset | Speed
- DC48-52V Power Input
- External Power Supply



FR-POE233

- 2x10/100/1000M RJ45
- 1x1000M SFP Slot
- 802.3 at PoE+ Standard
- Jumbo Frame | VLAN | Speed
- DC48-52V Power Input
- External Power Supply



FR-POE331

- 1x10/100M RJ45
- 1x100M SFP/1x9 Fiber Port
- 802.3 at PoE+ Standard
- Speed | AI PoE | LFPT
- AC 100~240V Power Input
- Internal Power Supply



FR-POE332

- 1x10/100/1000M RJ45
- 1x1000M SFP/1x9 Fiber Port
- 802.3 at PoE+ Standard
- Speed | AI PoE | LFPT
- AC 100~240V Power Input
- Internal Power Supply

Managed Media Converters



FR-6216M

FR-6216-AA/DD Chassis



FR-6102M

FR-6102-DD Chassis

Management Module

Multi-service platform chassis, which provides a reliable solution of high density media converter modules for applications such as telecom operator, enterprise, long haul transmission and factory automation.

The management Module connects to the chassis and communicates with the individual cards in the Managed Chassis. Only management traffic - no end-user data traffic - is sent across the managed Chassis to maintain security.

Each slide-in-module for managed Chassis has specific features and functions that are controlled via the Management Module. A network administrator can configure, monitor and troubleshoot slide-in-modules remotely via the management module. The remote management helps reduce operating expenses (OpEx) by reducing technician dispatches. Remote management allows for faster mean-time-to-repair by proactively receiving traps and alerts on potential issues. With less downtime you are able to focus on revenue generating aspects of your business.

Features

- Complete system information can be set up and displayed, including the name of the chassis, terrain information, related information of IP, constant operating time and the versions of the hardware and soft ware
- Real time display of voltage and temperature on the cards of the media converters, temperature of chassis and report fault in time
- Supporting SFP/XFP, CWDM SFP/XFP and DWDM SFP/XFP, and it can show the SFP/XFP information and digital diagnosis function
- Remote power off alarming, precisely distinguish remote failure
- Equipment restart, system or module restart by management software, set-up information on each module will be stored spontaneously when power off
- Reset to factory set up or dip switch status are optional
- Each port at local or remote devices can be set up or tracked, including the connecting status, connecting speed, half/full duplex, port locked and LFP etc.
- Supporting Loopback and PRBS, precisely locating the failure, convenient for link test



WebGUI Management Interface



NMS Management Interface

Managed Media Converters



Port

1x10/100M RJ45
1x100M SFP/1x9 Fiber Port

Management Features

Rate Limitation | LFPT

Power Input

FR-6101: DC5V
FR-6101R: AC220V/DC48V



Port

2x10/100M RJ45
1x100M SFP/1x9 Fiber Port

Management Features

Rate Limitation | VLAN Model

Power Input

FR-6102: DC5V
FR-6102R: AC220V/DC48V



Port

1x10/100/1000M RJ45
1x1000M SFP/1x9 Fiber Port

Management Features

Rate Limitation | LFPT

Power Input

FR-6103: DC5V
FR-6103R: AC220V/DC48V



Port

2x10/100/1000M RJ45
1x1000M SFP Fiber Port

Management Features

Rate Limitation | VLAN Mode

Power Input

FR-6104: DC5V
FR-6104R: AC220V/DC48V



Port

1x10G RJ45
1x10G SFP+

Management Features

Loopback Mode | SFP+ Status

Power Input

FR-6601: DC5V
FR-6601R: AC220V/DC48V



FR-6000-ODM

4 Channels CWDM M/DEMUX

Wavelength

1270-1330nm(Default)

Channel Spacing

20nm

Insertion Loss

≤1.3dB, 1.0dB

Managed Media Converters



2.5G TMUX Port

2x1.25G SFP Slots
1x2.5G SFP Slot

Power Input

FR-6302: DC5V
FR-6302R: AC220V/DC48V



1.25G Optical Line Protection Port

1x10/100/1000M RJ45
2x1000M SFP Slots

Power Input

FR-6501: DC5V
FR-6501R: AC220V/DC48V



2.5G Optical Transponder Port

2x125M to 2.5G SFP Slots
Power Input

FR-6201: DC5V
FR-6201R: AC220V/DC48V



4.25G Optical Transponder Port

2x125M to 4.25G SFP Slots

Power Input

FR-6202: DC5V
FR-6202R: AC220V/DC48V



10G 1R Optical Transponder Port

2x9.95 to 11.32G XFP Slots

Power Input

FR-6602: DC5V
FR-6602R: AC220V/DC48V



10G 3R Optical Transponder Port

2x8.5 to 11.7G SFP+ Slots

Power Input

FR-6604: DC5V
FR-6604R: AC220V/DC48V



Industrial Ethernet Switches

- L2+/L3 Managed Ethernet Switches
- L2+/L3 Managed Fiber Switches
- Web Smart Ethernet Switches
- Industrial Automation Switches
- PROFINET Unmanaged Switches

L2+/L3 Managed Ethernet Switches

Management and Maintenance

- Console, Telnet, SSH 2.0
- HTTP/HTTPS
- SNMP v1/v2/v3
- Upload and download files via TFTP/FTP
- SNT/TELNET/SSHv1/v2
- ICMPv6/ICMPv4 Remote Ping
- LLDP/LLDP-MED/UDLD

L2 Features

- 802.1d (STP), 802.1d (RSTP), 802.1s (MSTP)
- BPDU Guard, BPDU filtering
- ERPS(G.8032v2)
- Loopback Detection
- Link Aggregation/LACP/Stack Trunk/Traffic Load Balancing

VLAN

- IEEE 802.1Q tag-based VLAN
- 4K VLAN Entries
- QinQ/Selective QinQ
- MAC-based VLAN
- GVRP
- Voice / Surveillance VLAN
- MVR (Multicast VLAN Registration)

Security Features

- Suppression of broadcast, multicast and unknown unicast packet
- Static MAC address
- IP Source Guard
- DoS attacks prevention
- Dynamic ARP Inspection
- DHCP snooping, DHCP option43/82
- DHCP Client IPv4/IPv6
- Port-based IEEE 802.1x authentication
- MAC-based/Local/RADIUS authentication
- AAA(RADIUS/TACACS+)

MAC Table

- Static MAC Entries
- Configurable aging time of MAC address
- Independent learning mode per Port

Routing Protocols

- RIPv1/v2
- OSPFv1/v2
- IPv4/IPv6 Static Route

IPv6 Application

- HTTP/HTTPS
- SSH/SNMP
- TFTP/Syslog/Ping
- DHCP/ACL

Monitoring Functions

- Interface Statistics
- CPU/RAM Utilization Monitoring
- Temperature Monitoring
- Port Cable Test/Ping Test
- Port Mirroring
- RMON

QoS

- 802.1P/DSCP Class of Service
- Scheduling algorithms such as SP, WRR, WFQ or Hybrid(WRR+SP or WFQ+SP)
- Ingress/Egress Rate Limitation

Multicast Features

- Dynamic/Static Multicast groups
- IGMP Snooping v1,2,3
- IGMP Snooping Fast Leave
- GMP Querier
- MLD Snooping v1/v2

ACL

- L2/L3/L4 ACL
- ACL Based on:
 1. Source/Destination MAC
 2. VLAN
 3. COS
 4. Ethernet Type

L2+ Managed Ethernet Switches



FR-7M3204/P/BT

Port

4x10/100/1000M RJ45
2x100/1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
36Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M3204P: Port 1-4 802.3 af/at
FR-7M3204BT: Port 1-4 802.3 af/at/bt



FR-7M3008L

Port

8x10/100/1000M RJ45

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
36Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating



FR-7M3008P/P-24V/BT

Port

8x10/100/1000M RJ45

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
36Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M3008P: Port 1-8 802.3 af/at
FR-7M3008P-24V: Port 1-8 802.3 af/at
FR-7M3008BT: Port 1-8 802.3 af/at/bt

L2+ Managed Ethernet Switches



FR-7M3208L

Port

8x10/100/1000M RJ45
2x100/1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
36Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

Housing & mounting

Aluminium housing with DIN Rail
or wall mounting option



FR-7M3208P/P-24V/BT

Port

8x10/100/1000M RJ45
2x100/1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
36Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M3204P: Port 1-4 802.3 af/at
FR-7M3204P-24V: Port 1-4 802.3 af/at
FR-7M3204BT: Port 1-4 802.3 af/at/bt



FR-7M3408/P/P-24V/BT

Port

8x10/100/1000M RJ45
4x100/1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
36Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M3408P: Port 1-8 802.3 af/at
FR-7M3408P-24V: Port 1-8 802.3 af/at
FR-7M3408BT: Port 1-8 802.3 af/at/bt

L2+ Managed Ethernet Switches



FR-7M3208S/SP/SBT

Port

8x10/100/1000M RJ45
2x100/1000M SFP Slots
2x RS485/422/232 Serial Ports

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
36Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M3208SP: Port 1-8 802.3 af/at
FR-7M3208SBT: Port 1-8 802.3 af/at/bt



FR-7M3208F/FP/FBT

Port

8x10/100/1000M RJ45
2x1000Base-X Optical Fiber Bypass

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
36Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M3208FP: Port 1-8 802.3 af/at
FR-7M3208FBT: Port 1-8 802.3 af/at/bt



FR-7M3416/P/P-24V/BT

Port

16x10/100/1000M RJ45
4x100/1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M3416P: Port 1-16 802.3 af/at
FR-7M3416P-24V: Port 1-16 802.3 af/at
FR-7M3416BT: Port 1-16 802.3 af/at/bt

L2+ Managed Ethernet Switches



FR-7M3816/P/BT

Port

16x 10/100/1000M RJ45
8x 100/1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M3816P: Port 1-16 802.3 af/at
FR-7M3816BT: Port 1-16 802.3 af/at/bt



FR-7M348F/FP/FBT

Port

16x 10/100/1000M RJ45
12x 100/1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M348FP: Port 1-16 802.3 af/at
FR-7M348FBT: Port 1-16 802.3 af/at/bt



FR-7M3424/P/BT

Port

24x 10/100/1000M RJ45
4x 100/1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame 8K
MAC Address 56Gbps
Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7M3424P: Port 1-24 802.3 af/at
FR-7M3424BT: Port 1-24 802.3 af/at/bt

L2+ Managed Ethernet Switches



FR-9M3424/P/BT

Port

24x10/100/1000M RJ45
4x1000M SFP/RJ45 Combo

Power Supply

5-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-9M3424P: Port 1 to 24 802.3 af/at
FR-9M3424BT: Port 1 to 24 802.3 af/at/bt



FR-5M3208/P/BT

Port

8x10/100/1000M RJ45
2x1000M SFP Slots

Power Supply

Internal power adapter
AC100-240V 50-60Hz

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
36Gbps Bandwidth

Layer 2 Management Features

ERPSv2/RSTP/MSTP
SNMP v1/v2/v3
4K VLAN Entries, QinQ

L2/L3/L4 ACL

DHCP snooping, DHCP option82
IEEE 802.1x authentication

PoE Standard

FR-5M3208P: Port 1-8 802.3 af/at
FR-5M3208BT: Port 1-8 802.3 af/at/bt



FR-5M3224/P/BT

Port

24x10/100/1000M RJ45
2x1000M SFP Slots

Power Supply

Internal power adapter
AC100-240V 50-60Hz

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Layer 2 Management Features

ERPSv2/RSTP/MSTP
SNMP v1/v2/v3
4K VLAN Entries, QinQ

L2/L3/L4 ACL

DHCP snooping, DHCP option82
IEEE 802.1x authentication

PoE Standard

FR-5M3224P: Port 1-24 802.3 af/at
FR-5M3224BT: Port 1-24 802.3 af/at/bt

L2+ Managed Ethernet Switches



FR-5M3424/P/BT

Port

24x10/100/1000M RJ45
4x1000M RJ45/SFP Combo

Power Supply

Internal power adapter
AC100-240V 50-60Hz

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Layer 2 Management Features

ERPSv2/RSTP/MSTP
SNMP v1/v2/v3
4K VLAN Entries, QinQ
L2/L3/L4 ACL
DHCP snooping, DHCP option82
IEEE 802.1x authentication

PoE Standard

FR-5M3424P: Port 1-24 802.3 af/at
FR-5M3424BT: Port 1-24 802.3 af/at/bt



FR-5M4648/P

Port

48x10/100/1000M RJ45
6x1000M/10G SFP+

Power Supply

Internal power adapter
AC100-240V 50-60Hz

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Layer 2 Management Features

ERPSv2/RSTP/MSTP
SNMP v1/v2/v3
4K VLAN Entries, QinQ
L2/L3/L4 ACL
DHCP snooping, DHCP option82
IEEE 802.1x authentication

PoE Standard

FR-5M3424P: Port 1-24 802.3 af/at



FR-5M34F8

Port

8x10/100/1000M RJ45
16x1000M SFP
4x1000M RJ45/SFP Combo

Power Supply

Internal power adapter
AC100-240V 50-60Hz

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Layer 2 Management Features

ERPSv2/RSTP/MSTP
SNMP v1/v2/v3
4K VLAN Entries, QinQ
L2/L3/L4 ACL
DHCP snooping, DHCP option82
IEEE 802.1x authentication

L3 Managed Ethernet Switches



FR-7T4408

Port

8x10/100/1000M RJ45
4x10G SFP+ Slot

Power Supply

6-pin Industrial Terminal,
Dual 9-56VDC

Switching Property

12M Buffer Size
10K Jumbo Frame
16K MAC Address
128Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
5%-95%(No condensation) Humidity



FR-9T448F

Port

16x10/100/1000M RJ45
8x1000M SFP/RJ45 Combo
4x10G SFP+ Slots

Power Supply

5-pin Industrial Terminal,
Dual AC220V

Switching Property

12M Buffer Size
12K Jumbo Frame
16K MAC Address
128Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
5%-95%(No condensation) Humidity



FR-9T4424/P/BT

Port

24x10/100/1000M RJ45
4x10G SFP+ Slots

Power Supply

5-pin Industrial Terminal,
Dual 9-56VDC

Switching Property

12M Buffer Size
12K Jumbo Frame
16K MAC Address
128Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
5%-95%(No condensation) Humidity

PoE Standard

FR-9T4424P: Port 1-24 802.3 af/at
FR-9T4424BT: Port 1-24 802.3 af/at/bt

L3 Managed Ethernet Switches



FR-9T4648

Port

48x10/100/1000M RJ45
6x1/10G SFP+ Slot

Power Supply

Dual 110-240VAC

Switching Property

12M Buffer Size
12K Jumbo Frame
16K MAC Address
256G Bandwidth

Environmental

-40 to +75°C Operating Temp
5%-95%(No condensation) Humidity



FR-5T4424P/BT

Port

24x10/100/1000M RJ45
4x10G SFP+ Slots

Power Supply

Internal power adapter
AC100-240V 50-60Hz

Switching Property

12M Buffer Size
12K Jumbo Frame
16K MAC Address
128Gbps Bandwidth

Layer 3 Management Features

ERPSv2/RSTP/MSTP/LACP
SNMPv3/TACACS+/RADIUS
4K VLAN Entries, QinQ, Voice VLAN
802.1P/DSCP Class of Service L2/L3/L4
ACL/MLD Snooping v1/v2
RIPv2/OSPFv2/IPv4/IPv6 Static Route
DHCP snooping, DHCP option 43/82
IP Source Guard/DoS attacks prevention

PoE Standard

FR-5T4424P: Port 1-24 802.3 af/at
FR-5T4424BT: Port 1-24 802.3 af/at/bt



FR-5T4624

Port

24x10/100/1000M RJ45
6x10G SFP+ Slots

Power Supply

Internal power adapter
AC100-240V 50-60Hz

Switching Property

12M Buffer Size
12K Jumbo Frame
16K MAC Address
128Gbps Bandwidth

Layer 3 Management Features

ERPSv2/RSTP/MSTP/LACP
SNMPv3/TACACS+/RADIUS
4K VLAN Entries, QinQ, Voice VLAN
802.1P/DSCP Class of Service
L2/L3/L4 ACL/MLD Snooping v1/v2
RIPv2/OSPFv2/IPv4/IPv6 Static Route
DHCP snooping, DHCP option 43/82
IP Source Guard/DoS attacks prevention

L2+/L3 Managed Fiber Switches

Management and Maintenance

- Console, Telnet, SSH 2.0
- HTTP/HTTPS
- SNMP v1/v2/v3
- Upload and download files via TFTP/FTP
- SNT/TELNET/SSHv1/v2
- ICMPv6/ICMPv4 Remote Ping
- LLDP/LLDP-MED/UDLD

L2 Features

- 802.1d (STP), 802.1d (RSTP), 802.1s (MSTP)
- BPDU Guard, BPDU filtering
- ERPS(G.8032v2)
- Loopback Detection
- Link Aggregation/LACP/Stack Trunk/Traffic Load Balancing

VLAN

- IEEE 802.1Q tag-based VLAN
- 4K VLAN Entries
- QinQ/Selective QinQ
- MAC-based VLAN
- GVRP
- Voice / Surveillance VLAN
- MVR (Multicast VLAN Registration)

Security Features

- Suppression of broadcast, multicast and unknown unicast packet
- Static MAC address
- IP Source Guard
- DoS attacks prevention
- Dynamic ARP Inspection
- DHCP snooping, DHCP option43/82
- DHCP Client IPv4/IPv6
- Port-based IEEE 802.1x authentication
- MAC-based/Local/RADIUS authentication
- AAA(RADIUS/TACACS+)

MAC Table

- Static MAC Entries
- Configurable aging time of MAC address
- Independent learning mode per Port

Routing Protocols

- RIPv1/v2
- OSPFv1/v2
- IPv4/IPv6 Static Route

IPv6 Application

- HTTP/HTTps
- SSH/SNMP
- TFTP/Syslog/Ping
- DHCP/ACL

Monitoring Functions

- Interface Statistics
- CPU/RAM Utilization Monitoring
- Temperature Monitoring
- Port Cable Test/Ping Test
- Port Mirroring
- RMON

QoS

- 802.1P/DSCP Class of Service
- Scheduling algorithms such as SP, WRR, WFQ or Hybrid(WRR+SP or WFQ+SP)
- Ingress/Egress Rate Limitation

Multicast Features

- Dynamic/Static Multicast groups
- IGMP Snooping v1,2,3
- IGMP Snooping Fast Leave
- GMP Querier
- MLD Snooping v1/v2

ACL

- L2/L3/L4 ACL
- ACL Based on:
 1. Source/Destination MAC
 2. VLAN
 3. COS
 4. Ethernet Type

L2+ Managed Fiber Switches



FR-7M3808

Port

8x10/100/1000M RJ45
8x100/1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating



FR-9M34F8

Port

8x10/100/1000M RJ45
16x100/1000M SFP Slots
4x1000M SFP/RJ45 Combo

Power Supply

5-pin Phoenix Contact
2xAC220V

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating



FR-5M34F8

Port

8x10/100/1000M RJ45
16x1000M SFP Slots
4x1000M RJ45/SFP Combo

Power Supply

Internal power adapter
AC100-240V 50-60Hz

Switching Property

4M Buffer Size
10K Jumbo Frame
8K MAC Address
56Gbps Bandwidth

Layer 2 Management Features

ERPSv2/RSTP/MSTP
SNMP v1/v2/v3
4K VLAN Entries, QinQ
L2/L3/L4 ACL
DHCP snooping, DHCP option82
IEEE 802.1x authentication



PREVIEW Network Management System



High compatibility and reliability, supporting the mainstream browsers.



Support all Fiberroad IP-based hardware & extension of third-party devices.



Automatically discovers and diagrams network topology.



Dynamic Connectivity Indication
– PoE, Ring.



Make network administration more effective and efficient.

L3 Managed Fiber Switches



FR-9T44F8

Port

16x1000M SFP Slot
4x10G SFP+ Slots
8x1000M SFP/RJ45 Combo

Power Supply

5-pin Industrial Terminal
2xAC220V

Switching Property

12M Buffer Size
12K Jumbo Frame
16K MAC Address
128Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
5%-95%(No condensation) Humidity



FR-5T44F8

Port

16x100/1000M SFP Slot
4x10G SFP+ Slots
8x1000M RJ45/SFP Combo

Power Supply

Internal power adapter
AC100-240V 50-60Hz

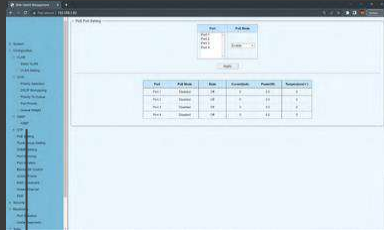
Switching Property

12M Buffer Size
12K Jumbo Frame
16K MAC Address
128Gbps Bandwidth

Layer 3 Management Features

ERPSv2/RSTP/MSTP/LACP
SNMPv3/TACACS+/RADIUS
4K VLAN Entries, QinQ, Voice VLAN
802.1P/DSCP Class of Service
L2/L3/L4 ACL/MLD Snooping v1/v2
RIPv2/OSPFv2/IPv4/IPv6 Static Route
DHCP snooping, DHCP option 43/82
IP Source Guard/DoS attacks prevention

Web Smart Ethernet Switches



WebGUI Management Interface

PORT SETTING

SPEED/DUPLEX
FLOW CONTROL
BANDWIDTH CONTROL
PORT ISOLATION

VLAN & QOS

VLAN SETTING
TRUNK GROUP SETTING
QOS PRIORITY SELECTION
QOS DSCP REMAPPING

OTHERS

RSTP CONFIGURATION
STORM CONTROL
SECURITY MAC ADDRESS
FIRMWARE UPGRADE



FR-7S3204/P/BT

Port

4x10/100/1000M RJ45
2x1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

512K Buffer Size 9K
Jumbo Frame 2K
MAC Address

14Gbps Bandwidth

Environmental

-40 to 75°C Operating Temp

IP40 Rating

PoE Standard

FR-7N3204P: Port 1-4 802.3 af/at

FR-7N3204BT: Port 1-4 802.3 af/at/bt

Industrial Automation Switches

Time Sensitive Networking (TSN)

Management and Maintenance

- Console, Telnet, SSH 2.0
- HTTP/HTTPS
- SNMP v1/v2/v3
- Upload and download files vis TFTP/FTP
- NTP/TELNET/SSHv1/v2
- ICMPv6/ICMPv4 Remote Ping
- LLDP/LLDP-MED/UDLD/sFlow

Redundancy Features

- 802.1d (STP), 802.1d (RSTP), 802.1s (MSTP)

BPDU Guard, BPDU filtering

- ERPS(G.8032v2)
- Loopback Protection
- IEEE 802.3ad LACP/static trunk
- MRP(Media Redundancy Protocol)
- APS Protocol

VLAN

- IEEE 802.1Q tag-based VLAN
- 4K VLAN Entries
- QinQ/Selective QinQ
- MAC/Protocol/IP Subnet-based VLAN
- MVRP/GVRP/Private VLANs
- Voice / Surveillance VLAN

OAM

- IEEE 802.3ah Ethernet OAM
- Dying Gasp
- IEEE 802.1ag CFM
- IEEE 802.3ah UDLD

Security Features

- Static MAC address
- IPv4/v6 IP Source Guard
- Dynamic ARP Inspection
- Guest VLAN
- DHCP snooping, DHCP option43/82
- DHCP Client IPv4/IPv6
- Port-based IEEE 802.1x authentication
- MAC-based/Local/RADIUS authentication
- AAA(RADIUS/TACACS+)

MAC Table

- Static MAC Entries
- Configurable aging time of MAC address
- Independent learning mode per Port

Time Synchronization

- IEEE 1588v2 PTP
- 802.1AS-Rev
- 802.1Qbv
- 802.1Qci
- 802.1CB
- 802.1Qbu

ACL

- L2/L3/L4 ACL
- ACL Based on:
 1. Source/Destination MAC
 2. VLAN
 3. DSCP
 4. Ethernet Type

Monitoring Functions

- Interface Statistics
- CPU/RAM Utilization Monitoring
- Temperature Monitoring
- Port Cable Test/Ping Test
- Port Mirroring
- RMON
- UPnP(Universal Plug and Play)

QoS

- Shaping, Policing
- IEEE 802.1p Class of Service (CoS)
- Storm Control
- Bandwidth management
- Scheduling:SP/WRR
- ACL-based traffic classification
- ACL-based CoS/DSCP assignment
- DSCP to CoS remarking
- CoS to DSCP remarking
- ACL-based VLAN assignment

Multicast Features

- Dynamic/Static Multicast groups
- IGMP Snooping v1,2,3
- Port-based IGMP Fast Leave
- GMP Querier
- MLD Snooping v1/v2

Routing Protocols

- RIPv1/v2
- OSPFv1/v2/v3
- IPv4/IPv6 Static Route



Industrial Automation Switches – L2+ Managed Ethernet Switches



FR-PTP3412

Port

12x1000M RJ45

4x1.25/2.5G SFP Slots

Power Supply

6-pin Industrial Terminal,

2 x 9-56VD

Switching Property

4M Buffer Size

9.6K Jumbo Frame

8K MAC Address

36Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp

5%-95%(No condensation) Humidity

Time Synchronization

IEEE 1588v2 PTP

Industrial Automation Switches – L2+ & L3 Managed Ethernet Switches



FR-TSN3206

Port

6x10/100/1000M RJ45
2x1000M/1.25G/2.5G SFP Slots

Power Supply

6-pin Industrial Terminal, 2x9-56VDC

Switching Property

12M Buffer Size
15K Jumbo Frame
8K MAC Address
64Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
5%-95%(No condensation) Humidity

Time Synchronization

IEEE 1588v2 PTP/802.1AS-Rev
802.1Qbv / 802.1Qci
802.1CB / 802.1Qbu



FR-TSN4208

Port

8x10/100/1000M RJ45
2x10G SFP+ Slot

Power Supply

6-pin Industrial Terminal, 2x9-56VDC

Switching Property

12M Buffer Size
15K Jumbo Frame
8K MAC Address
64Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
5%-95%(No condensation) Humidity

Time Synchronization

IEEE 1588v2 PTP/802.1AS-Rev
802.1Qbv / 802.1Qci
802.1CB / 802.1Qbu



FR-TSN4412

Port

12x1000M SFP Slot
4x10G SFP+ Slot

Power Supply

6-pin Industrial Terminal, 2 x 9-56VDC

Switching Property

32M Buffer Size
15K Jumbo Frame
32K MAC Address
128Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
5%-95%(No condensation) Humidity

Time Synchronization

IEEE 1588v2 PTP/802.1AS-Rev
802.1Qbv / 802.1Qci
802.1CB / 802.1Qbu

PROFINET Unmanaged Switches

Auto Broadcast Suppression

The switch independently learns the addresses of termination devices connected to a port by evaluating the source addresses in the data.

Auto PROFINET PTCP Filtering

Auto PROFINET PTCP Filtering blocks PROFINET PTCP-Delay traffic. Because PTCP-Delay uses the same MAC address (01-80-C2-00-00-0E), the filter blocks LLDP traffic as well.

Auto QoS Priority

Auto QoS, when heavy traffic occurs, packets with an 802.1Q priority level of 4 to 7 or with an IPv4 Type of Service Precedence value of one or more are considered high priority.



PROFINET Unmanaged Switches



FICE1005/2005

Port

FICE1005: 5x10/100M RJ45

FICE2005: 5x10/100/1000M RJ45

Power Supply

6-pin Phoenix Contact, 2x12-48VDC

Switching Property

512K Buffer Size

2048 bytes Frame

2K MAC Address

1Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp

IP40 Rating

Housing & mounting

Aluminium housing with DIN Rail
or wall mounting option



FICE1008/2008

Port

FICE1008: 8x10/100M RJ45

FICE2008: 8x10/100/1000M RJ45

Power Supply

6-pin Phoenix Contact, 2x12-48VDC

Switching Property

1M Buffer Size

2048 bytes Frame

2K MAC Address

1.6Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp

IP40 Rating

Housing & mounting

Aluminium housing with DIN Rail
or wall mounting option

Unmanaged Ethernet Switches

HIGH STANDARD INDUSTRIAL GRADE

HARSH ENVIRONMENTS
-40 TO +75°C OPERATING TEMPERATURE
±6KV POWER SUPPLY SURGE PROTECTION
±8KV CONTACT DISCHARGE
IP40 RATING

ADAPTABLE

DC9-56V WIDE VOLTAGE RANGE
OPTIONAL POE/POE+/POE++

PLUG N PLAY

NO ADDITIONAL CONFIGURATION NEEDED
DIN RAIL OR WALL MOUNTING



FR-7N3102/P/BT

RJ45

2x10/100/1000M

SFP

1x1000M

Bandwidth

14Gbps

Power Input

2xDC9-56V

PoE Standard

FR-7N3102P: 802.3 af/at

FR-7N3102BT: 802.3 af/at/bt



FR-7N3104/P/BT

RJ45

4x10/100/1000M

SFP

1x1000M

Bandwidth

14Gbps

Power Input

2xDC9-56V

PoE Standard

FR-7N3102P: 802.3 af/at

FR-7N3102BT: 802.3 af/at/bt



FR-7N3005/P/BT

RJ45

5x10/100/1000M

Bandwidth

14Gbps

Power Input

2xDC9-56V

PoE Standard

FR-7N3005P: 802.3 af/at

FR-7N3005BT: 802.3 af/at/bt

Unmanaged Ethernet Switches



FR-7N3008/P/BT

RJ45

8x10/100/1000M

Switching Property

2M Buffer Size

1500 Bytes Frame

4K MAC Address

20Gbps Bandwidth

Power Input

2xDC9-56V

PoE Standard

FR-7N3008P: Port 1 to 8 802.3 af/at

FR-7N3008BT: Port 1 to 8 802.3 af/at/bt



FR-7N3808

Port

8x10/100/1000M RJ45

8x1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size

1500 bytes Frame

8K MAC Address

52Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp

IP40 Rating

Housing & mounting

Aluminium housing with DIN Rail
or wall mounting option



FR-7N3208/P/P-24V/BT

RJ45

8x10/100/1000M

SFP

2x1000M Slots

Switching Property

2M Buffer Size

1500 Bytes Frame

4K MAC Address

20Gbps Bandwidth

Power Input

2xDC9-56V

PoE Standard

FR-7N3208P: Port 1 to 8 802.3 af/at

FR-7N3208P-24V: Port 1 to 8 802.3 af/at

FR-7N3208BT: Port 1 to 8 802.3 af/at/bt

Unmanaged Ethernet Switches



FR-7N3016

Port

16x10/100/1000M RJ45

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
1500 bytes Frame
8K MAC Address
52Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

Housing & mounting

Aluminium housing with DIN Rail
or wall mounting option



FR-7N3216L

Port

16x10/100/1000M RJ45
2x1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
1500 bytes Frame
8K MAC Address
52Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

Housing & mounting

Aluminium housing with DIN Rail
or wall mounting option



FR-7N3224/P/BT

Port

24x10/100/1000M RJ45
2x1000M SFP Slots

Power Supply

6-pin Phoenix Contact, 2x9-56VDC

Switching Property

4M Buffer Size
1500 Bytes Frame
8K MAC Address
52Gbps Bandwidth

Environmental

-40 to +75°C Operating Temp
IP40 Rating

PoE Standard

FR-7N3224P: Port 1 to 24 802.3 af/at
FR-7N3224BT: Port 1 to 24 802.3 af/at/bt



FR-IPM2003M-1GF1PG-DP-30

**Industrial Gigabit Media Converter
(Powered Device) and PoE (802.3at)
Splitter with Wide Range DC Power
Output**

Port

2x10/100/1000M RJ45
1x100/1000M SFP Slots

Power Input

PD Port/DC Terminal:
PoE Input (TP2), IEEE802.3 at/bt
or DC36-48V (V+/V-)
DC48-57V or DC Input: DC36-48V(Option)

Environmental

-30 to +75°C Operating Temp
IP40 Rating

PoE Standard

TP1 IEEE802.3 af/at

FR-IPM2003M-1GF1GE-P-30

**Industrial Gigabit Media Converter
(Powered Device) and PoE (802.3at)
Splitter with Wide Range DC Power
Output**

Port

2x10/100/1000M RJ45
1x100/1000M SFP Slots

Power Input

PD Port/DC Terminal:
PoE Input (TP2), IEEE802.3 at/bt
DC36-48V (V+/V-)
DC48-57V or DC Input: DC36-48V(Option)

DC Power Output

1 removable 2-contact terminal blocks
5-24VDC (Shared 60W power)

Environmental

-30 to +75°C Operating Temp
IP40 Rating

PoE Injectors / Relays / Splitters



FR-IPM2002I-1PG-D-30

Industrial Gigabit PoE (802.3at) Injector
with Wide Range DC Power Input

Port

2x10/100/1000M RJ45

Input Port

1 x 10/100/1000BASE-T RJ45, Data In

Output Port

1 x 10/100/1000BASE-T RJ45, PoE (Data +
Power) Out

Input power terminal block:

1 removable 2-Pin terminal block

Power Input

12-48V DC

Environmental

-30 to +75°C Operating Temp IP40

Rating

PoE Standard

IEEE802.3 af/at



FR-IPM2002I-1PG-D-90

Industrial Gigabit PoE (802.3at/bt) Injector
with Wide Range DC Power Input

Port

2x10/100/1000M RJ45

Input Port

1 x 10/100/1000BASE-T RJ45, Data In

Output Port

1 x 10/100/1000BASE-T RJ45, PoE (Data +
Power) Out

Input power terminal block:

1 removable 2-Pin terminal block

Power Input

12-48V DC

Environmental

-40 to +80°C Operating Temp IP40

Rating

PoE Standard

IEEE802.3 af/at/bt

PoE Injectors / Relays / Splitters



FR-IPM2002T-P-30

Industrial Gigabit PoE (802.3at) Splitter with 24VDC Power Output

Port

2x10/100/1000M RJ45

Input Port

1 x 10/100/1000BASE-T RJ45, PoE (Data + Power) In

Output Port

1 x 10/100/1000BASE-T RJ45, Data out

Input power terminal block:

1 removable 2-Pin terminal block

Power Input: 48-56V DC

Power Output: 24V DC

Environmental

-30 to +70°C Operating Temp,

IP40 Rating

PoE Standard

IEEE802.3 af/at



FR-IPS2008I-4PG-A-90

Gigabit 4-port PoE (802.3at/bt) Injector with AC Power Input

Port

4x10/100/1000BASE-T RJ45 (Data In)

4x10/100/1000BASE-T RJ45(PoE Out)

Power Input

AC 100-240V, 50-60Hz,
Internal AC-to-DC adapter

Power Connect

C14 Terminal

DC Power Output

1 removable 2-contact terminal blocks

5-24VDC (Shared 60W power)

Environmental

0 to +50°C Operating Temp

PoE Standard

Out 1-4, IEEE802.3 af/at



FR-IPM2003MT-1GF1GE-P-60

Industrial Gigabit Media Converter (Powered Device) and PoE (802.3at/bt) Splitter with USB Power Output

Port

2x10/100/1000M RJ45

1x100/1000M SFP Slot

Input Port

PD Port/DC Terminal:

PoE Input(TP2), IEEE802.3 at/bt

48-57V DC

Power Output

USB-C, 5-20V, 3A Max (60W)

Environmental

-30 to +70°C Operating Temp IP40

Rating

PoE Standard

IEEE802.3 at/bt

Optical Transport Network



Service Providers



Fronthaul Network



Dark Fiber Providers



Enterprises



Optical Transport Network



FR8000-CH01

1-Slot Platform

FAN

4 Units

Power Supply

2xAC220V/DC-48V



FR8000-CH04

4-Slot Platform

FAN

3 Units

Power Supply

2xAC220V/DC-48V



FR8000-CH08

8-Slot Platform

FAN

4 Units

Power Supply

2xAC220V/DC-48V



FR8000-CH16

16-Slot Platform

FAN

4 Units

Power Supply

2xAC220V/DC-48V

Management Features

- Support SNMP、CLI、WEB、TELNET Network Management method
- . Completely visual graphic information .
- Entire network topology auto-discovery, Automatically generate network elements.
- Electronic map positioning, Fault location quickly and accurately.
- Voice alarm, e-mail alerts, SMS alerts, real-time online remote monitoring.
- EMS Management Platform, Covering entire Process from Plan to maintenance .
- Fault quick diagnosis, One-click export resource statements.
- Cable Fault point localization diagnosis, real-time detection cable quality .
- OPM channel scanning, OSNR real-time monitoring.

Optical Transport Network



FR8000-NMS

Interfaces

1xRS-232
4x10/100Base-TX
2x100Base-X SFP
1xE1

Management Access

SNMP
WebGUI
Telnet
CLI

Management Features

Fault Management
Performance Management
Security Management
Configuration Management
Event Management
Log Management
Alarm Management
Topology Management
User Management
Online Firmware Upgrade

Platform

FR8000-CH08
FR8000-CH16

Environment

-10 to 60°C Operating Temperature
5% to 95% Non-condensing

Power Consumption

≤15W



FR8000-OTURQS2S

Interfaces

Client Side: 4x10G SFP+ Slots
Line Side: 4x10G SFP+ Slots

Data Rate

Fiber Channel: 8.5/10G
SONET OC-192, STM-64
10G WAN (10Gbps)
10G LAN(10.31Gbps)

Wavelength

850nm, 1310nm, 1550nm
CWDM, DWDM



FR8000-OCIDX2XX

Interfaces

Client Side: 2x10G XFP Slots
Line Side: 4x10G XFP Slots

Data Rate

Fiber Channel: 8.5/10G
SONET OC-192, STM-64
10G WAN (10Gbps)
10G LAN(10.31Gbps)

Protection

1+1 Line Side Protection

Optical Transport Network



FR 8000-TMX

Interfaces

Client Side: 8x1.25G SFP Slots
Line Side: 2x10G SFP+ Slots

Management Features

Client Side Rate Limitation
Client and Line side Loopback

Protection

1+1 Line Side Protection



FR 8000-OTURDX2X

Interfaces

Client Side: 2x100G QSFP28 Slots
Line Side: 2x100G QSFP28 Slots

Management Features

Port working Status
Digital Optical Monitoring

Wavelength

Client Side LR4
Line Side: LR4/ZR4/PAM4



FR 8000-OD/OM

Number of Channels

40/48

Channel Spacing

100 GHz

Central Wavelength

C-band

Insertion Loss

≤4.5dB(Typical)



FR 8000-BA/PA/LA

Mode

BA: Booster Amplifier
LA: In-line Amplifier
PA: Pre Amplifier

Operating Wavelength

1528-1565nm

Embedded OSC for remote management and topology detection

Integrated single/dual DCM for long distance 10G amplified links

Network Peripherals - SFP Modules

155M SFP



Wavelength	Distance	Connector	Temp.
850nm	2km	LC	C/I
1310nm	2km	LC	C/I
1310nm	2km	LC	C/I
1310nm	15km	LC	C/I
1310nm	40km	LC	C/I
1310nm	80km	LC	C/I
1550nm	15km	LC	C/I
1550nm	80km	LC	C/I
1550nm	100km	LC	C/I
1550nm	120km	LC	C/I
1550nm	160km	LC	C/I
1550nm	200km	LC	C/I

155M BIDI SFP



Wavelength	Distance	Connector	Temp.
1310nm/1550nm	2km	LC/SC	C/I
1550nm/1310nm	2km	LC/SC	C/I
1310nm/1490nm	10km	LC/SC	C/I
1490nm/1310nm	10km	LC/SC	C/I
1310nm/1550nm	15km	LC/SC	C/I
1550nm/1310nm	15km	LC/SC	C/I
1310nm/1490nm	20km	LC/SC	C/I
1490nm/1310nm	20km	LC/SC	C/I
1310nm/1550nm	40km	LC/SC	C/I
1550nm/1310nm	40km	LC/SC	C/I
1310nm/1490nm	40km	LC/SC	C/I
1490nm/1310nm	40km	LC/SC	C/I
1310nm/1550nm	80km	LC/SC	C/I
1550nm/1310nm	80km	LC/SC	C/I

1.25Gbps SFP



Wavelength	Distance	Connector	Temp.
850nm	550m	LC	C/I
1310nm	1km	LC	C/I
1310nm	10km	LC	C/I
1310nm	15km	LC	C/I
1310nm	20km	LC	C/I
1310nm	40km	LC	C/I
1550nm	40km	LC	C/I
1550nm	80km	LC	C/I
1550nm	100km	LC	C/I
1550nm	120km	LC	C/I
1550nm	160km	LC	C/I
CWDM/DWDM	20km	LC	C/I
CWDM/DWDM	40km	LC	C/I
CWDM/DWDM	80km	LC	C/I
CWDM/DWDM	100km	LC	C/I
CWDM/DWDM	120km	LC	C/I
CWDM/DWDM	160km	LC	C/I

1.25Gbps BIDI SFP



Wavelength	Distance	Connector	Temp.
1310nm/1550nm	1km	LC/SC	C/I
1550nm/1310nm	1km	LC/SC	C/I
1310nm/1490nm	4km	LC/SC	C/I
1490nm/1310nm	4km	LC/SC	C/I
1310nm/1550nm	10km	LC/SC	C/I
1550nm/1310nm	10km	LC/SC	C/I
1310nm/1490nm	10km	LC/SC	C/I
1490nm/1310nm	10km	LC/SC	C/I
1310nm/1550nm	20km	LC/SC	C/I
1550nm/1310nm	20km	LC/SC	C/I
1310nm/1490nm	20km	LC/SC	C/I
1490nm/1310nm	20km	LC/SC	C/I
1310nm/1550nm	40km	LC/SC	C/I
1550nm/1310nm	40km	LC/SC	C/I
1310nm/1490nm	40km	LC/SC	C/I
1490nm/1310nm	40km	LC/SC	C/I
1310nm/1550nm	60km	LC/SC	C/I
1550nm/1310nm	60km	LC/SC	C/I
1310nm/1490nm	60km	LC/SC	C/I
1490nm/1310nm	60km	LC/SC	C/I

Network Peripherals - SFP Modules

2.5Gbps SFP



Wavelength	Distance	Connector	Temp.
850nm	300m	LC	C/I
850nm	500m	LC	C/I
1310nm	2km	LC	C/I
1310nm	20km	LC	C/I
1310nm	40km	LC	C/I
1550nm	40km	LC	C/I
1550nm	80km	LC	C/I
CWDM	40km	LC	C/I
CWDM/DWDM	80km	LC	C/I

2.5Gbps BIDI SFP



Wavelength	Distance	Connector	Temp.
1310nm/1550nm	20km	LC/SC	C/I
1550nm/1310nm	20km	LC/SC	C/I
1490nm/1550nm	40km	LC/SC	C/I
1550nm/1490nm	40km	LC/SC	C/I
1490nm/1550nm	80km	LC	C/I
1550nm/1490nm	80km	LC	C/I

Copper SFP



Data Rate	Distance	Connector	Temp.
100 Base-Tx	100m	RJ45	C/I
1000 Base-T	100m	RJ45	C/I
10/100/1000 Base-T	100m	RJ45	C/I
100/1000/2.5G 5G/10G	30m	RJ45	C/I

1/10G SFP+



Wavelength	Distance	Connector	Temp.
850nm	300m	LC	C
1310nm	10km	LC	C/I
1550nm	40km	LC	C

Network Peripherals - SFP Modules

10G SFP+



Wavelength	Distance	Connector	Temp.
850nm	300m	LC	C/I
1310nm	2km	LC	C/I
1310nm	10km	LC	C/I
1310nm	20km	LC	C/I
1310nm	40km	LC	C/I
1550nm	40km	LC	C/I
1550nm	80km	LC	C/I
1550nm	100km	LC	C
CWDM/DWDM	40km	LC	C/I
CWDM/DWDM	80km	LC	C/I

10G CDR SFP+



Wavelength	Distance	Connector	Temp.
850nm	300m	LC	C
1310nm	2km	LC	C
1310nm	10km	LC	C
1310nm	20km	LC	C
1310nm	40km	LC	C
1550nm	40km	LC	C
1550nm	80km	LC	C
CWDM/DWDM	40km	LC	C/I
CWDM/DWDM	80km	LC	C/I

10G BIDI SFP+



Wavelength	Distance	Connector	Temp.
1270nm/1330nm	10km	LC	C/I
1330nm/1270nm	10km	LC	C/I
1270nm/1330nm	20km	LC	C/I
1330nm/1270nm	20km	LC	C/I
1270nm/1330nm	40km	LC	C/I
1330nm/1270nm	40km	LC	C/I
1270nm/1330nm	60km	LC	C/I
1330nm/1270nm	60km	LC	C/I
1490nm/1550nm	80km	LC	C/I
1550nm/1490nm	80km	LC	C/I

10G BIDI CDR SFP+



Wavelength	Distance	Connector	Temp.
1270nm/1330nm	10km	LC	C/I
1330nm/1270nm	10km	LC	C/I
1270nm/1330nm	20km	LC	C/I
1330nm/1270nm	20km	LC	C/I
1270nm/1330nm	40km	LC	C/I
1330nm/1270nm	40km	LC	C/I
1270nm/1330nm	60km	LC	C/I
1330nm/1270nm	60km	LC	C/I

Network Peripherals - SFP Modules

10G XFP



Wavelength	Distance	Connector	Temp.
850nm	300m	LC	C/I
1310nm	2km	LC	C/I
1310nm	10km	LC	C/I
1310nm	20km	LC	C/I
1310nm	40km	LC	C/I
1550nm	40km	LC	C/I
1550nm	80km	LC	C/I
1550nm	100km	LC	C
CWDM/DWDM	40km	LC	C
CWDM/DWDM	80km	LC	C

8/10G XFP



Wavelength	Distance	Connector	Temp.
850nm	300m	LC	C/I
1310nm	2km	LC	C/I
1310nm	10km	LC	C/I
1310nm	20km	LC	C/I
1550nm	40km	LC	C/I
1550nm	80km	LC	C/I
CWDM/DWDM	40km	LC	C
CWDM/DWDM	80km	LC	C

10G BIDI XFP



Wavelength	Distance	Connector	Temp.
1270nm/1330nm	10km	LC	C/I
1330nm/1270nm	10km	LC	C/I
1270nm/1330nm	20km	LC	C/I
1330nm/1270nm	20km	LC	C/I
1270nm/1330nm	40km	LC	C/I
1330nm/1270nm	40km	LC	C/I
1270nm/1330nm	60km	LC	C/I
1330nm/1270nm	60km	LC	C/I

40G QSFP+



Wavelength	Distance	Connector	Temp.
850nm	100/150m	MPO	C
850nm	300/400m	MPO	C
CWDM4	2km	LC	C
CWDM4	10km	LC	C/I
CWDM4	20km	LC	C/I
CWDM4	40km	LC	C/I

Network Peripherals - SFP Modules

100G QSFP28



Wavelength	Distance	Connector	Temp.
850nm	100m	LC	C/I
850nm	150m	LC	C/I
CWDM4	2km	LC	C/I
CWDM4	10km	LC	C/I
LAN-WDM	40km	LC	C/I
LAN-WDM	80km	LC	C/I
LAN-WDM	100km	LC	C/I
1311nm	500m	LC	C/I
1311nm	2km	LC	C/I
1311nm	10km	LC	C/I
1311nm	30km	LC	C
1311nm	40km	LC	C

100G CWDM/DWDM QSFP28



Wavelength	Distance	Connector	Temp.
1271nm/1291nm /1311nm/1331nm	2km	LC	C
1271nm/1291nm /1311nm/1331nm	10km	LC	C
DWDM C band	80km	LC	C
DWDM O band	25km	LC	C
DWDM O band	40km	LC	C

POWER SUPPLY

DIN Rail Power Supply



	75W	120W	240W	480W
AC Input Voltage Range	90-264VAC; 127-370VDC			
AC Inrush Current(max.)	Cold start, 35A at 230VAC			
DC Adjustment Range	12V: 12-14V, 24V: 24-28V, 48V:48-55V			
Operating Temperature	-20 - +70°C			
Safety Standard	UL508, TUV BS EN/EN62368-1, EAC TP TC, BSMI CNS14336-1			
EMC Standard	BS EN/EN55032 class B, EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11, EN61000-6-2 (EN50082-2), EN61204-3; EAC TP TC 020			
Dimension(WxHxD)(mm)	32x125.2x102	40x125.2x113.5	63x125.2x113.5	85.5x125.2x128.5

GLOBAL DISTRIBUTOR RECRUITING

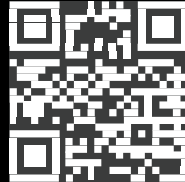
Looking Forward to Our Partnership

Through our years of experience, we have focused on creating a recipe for promptly addressing the evolving demands of the market. Our philosophy does not involve sacrificing efficiency, dependability, and user-friendliness in our devices - these aspects are ingrained in our products as a reflection of our vision and principles.

Currently, we have distribution points in various countries worldwide, including the United Kingdom, France, Spain, Italy, Malaysia, Indonesia, Uzbekistan, Egypt, Saudi Arabia and more.

We are constantly expanding and aspire to compete in the international market.

CONTACT US



www.fiberroad.com

Address: Unit 13, Flat A, 2/F Wah Wing Industrial
Building 14-20 Wing Yip Street, Kwai Chung,
N.T., Hong Kong

E-mail: marketing@fiberroad.com

Tel: +852 9254 6058