RG-NBF5200M-8FS16GT4XS

e-Lighten Layer 3 Managed Switch

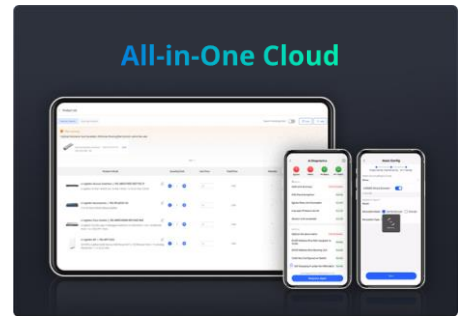DATASHEET | **Explore More ▶**

Highlights

- Passive Optical Networking Support

- Core Switch + OLT 2-in-1 for Flexible Networking

- 10G Uplink

- 6 kV Surge Protection, Reducing the Risk of Port Damage

- Free Layer 3 Cloud Management

Highlight Features

RG-NBF5200M-8FS16GT4XS

e-Lighten 10G Layer 3 Managed Switch

8 x 1G e-Lighten Optical Ports + 16 x 1G Ethernet Ports + 4 x 10G SFP+ Ports

8 × 1G e-Lighten Optical Ports
Optical Splitting & All-Optical Support

16 × 1G Ethernet Ports
with Auto-Negotiation

4 × 10G SFP+ Ports

Core Switch + OLT Integration

Hybrid of P2P&P2MP Networks

10G Uplink

6 kV Protection

5-Year Warranty

All-in-One Cloud

Core Switch + OLT Integration

Integrating Excellence, Minimizing Expense

/ Highlight Features

Flexible Networking, Hybrid of P2P & P2MP Networks

Customize the Network that Works Best for You

e-Lighten Optical Port
Optical Splitting & All-optical Support

Optical Splitter

e-Lighten Access Switch

e-Lighten AP

Passive Optical Network - P2MP

Camera

Ethernet Access Switches

Ethernet Ceiling AP

Ethernet Network - P2P

10G Uplink: Powering the Next Generation of Connectivity

SFP+ Ports

10G

Cloud, Make Your Business Easy

Pre-Sale   Deployment   Post-Sale

Risk warning
1.Optical transceiver must be added. Otherwise, the e-Lighten Solution cannot be used.

Easy BOM

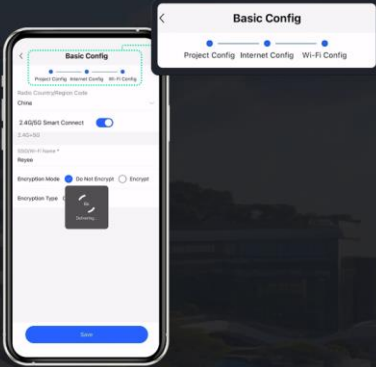Automated validation of the e-Lighten BOM for accuracy

Highlight Features

Cloud, Make Your Business Easy

Pre-Sale　　　　Deployment　　　　Post-Sale

Easy Configuration

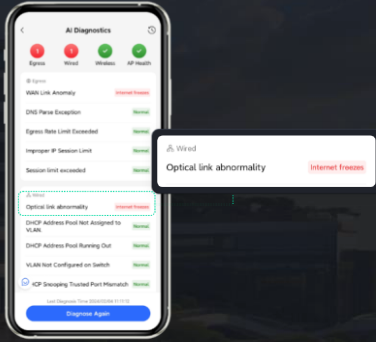Unified configuration of optical networks, Ethernet and telephony systems

Cloud, Make Your Business Easy

Pre-Sale　　　　Deployment　　　　Post-Sale

Easy Maintenance

One-click AI troubleshooting to remotely resolve 90% of faults

Specifications

Model	RG-NBF5200M-8FS16GT4XS
Basic	
Line Card	NO
Chassis	NO
Number of 1000BASE-T Ports	16
Number of 1G PON/SFP Ports	8
Number of 10G SFP+ Ports	4
Number of Management Ports	NO
Recommended Client Limits	1200
Recommended Camera Limits	2 MP H265:400 4 MP H265:200 8 MP H265:100
PoE Support	NO
Switching Capacity	216Gbps
Forwarding Rate	96Mpps
Port Surge Protection	Common 6 kV
Operating Temperature	0°C to 50°C (32°F to 122°F)
Operating Humidity	10% to 90% RH
Mounting	Rack-mount
Hardware Specifications	
Number of Fans	2
PON/Ethernet Optical Transceiver Auto-Sensing	Yes
1G PON Optical Transceivers	Yes
2.5G PON Optical Transceivers	NO

Model	RG-NBF5200M-8FS16GT4XS
10G PON Optical Transceivers	NO
Number of ONUs per 1G PON Port	32
Number of ONUs of All 1G PON Ports per Device	256
Number of 1G PON Ports	8
Max. Number of PON Ports per Device	8
Layer 2 Isolation for ONUs Connected to the Same OLT Port (disabled by default)	Yes
Static Bandwidth Allocation (SBA): Fixed Bandwidth for ONUs	Yes
Dynamic Bandwidth Allocation (DBA): Maximum Bandwidth for ONUs	Yes
OLT Displaying OLT Optical Transceiver Info (Temperature/Voltage/Current/Tx Power/Rx Power/Port Mode)	Yes
OLT Displaying ONU Optical Transceiver Info (Temperature/Voltage/Current/Tx Power/Rx Power/Port Mode)	Yes
ONU Optical Transceiver Exception Reporting on OLT (Abnormal Temperature, Voltage, Current, and Tx/Rx Power)	Yes
OLT Automatically Connecting ONUs	Yes
Software Features	
VLAN	Yes
Max. Number of VLANs	4094
Port Mirroring	Yes
Port Aggregation (Link Aggregation)	Yes
802.1X Authentication	Yes
RIP	Yes
ACL	Yes

Model	RG-NBF5200M-8FS16GT4XS
Port Flow Control	Yes
Quality of Service (QoS)	Yes
Network Management Support	Yes
Virtual Cluster Switching (VCS)	Yes
Layer 3 Support	Yes
Voice VLAN	Yes
Hardware-based CPU Protection Policy (CPP)	Yes
Network Foundation Protection Policy (NFPP)	NO
Ruijie Rapid Link Detection Protocol (RLDP)	Yes
IPv6	Yes
Management via Ruijie Reyee App	Yes
Management via Web Interface	Yes
Management via Ruijie Cloud	Yes

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Redefine your easy network

Ruijie Networks Co., Ltd.

Official Website: https://Reyee.Ruijie.com