

RG-NBF5200M-8FS16GT4XS

e-Lighten Layer 3 Managed Switch

DATASHEET

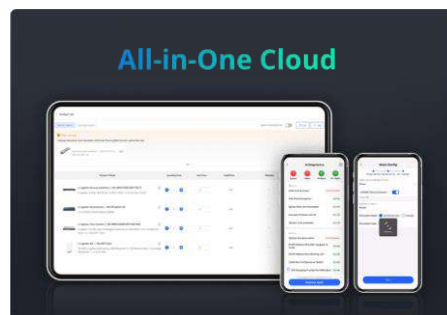
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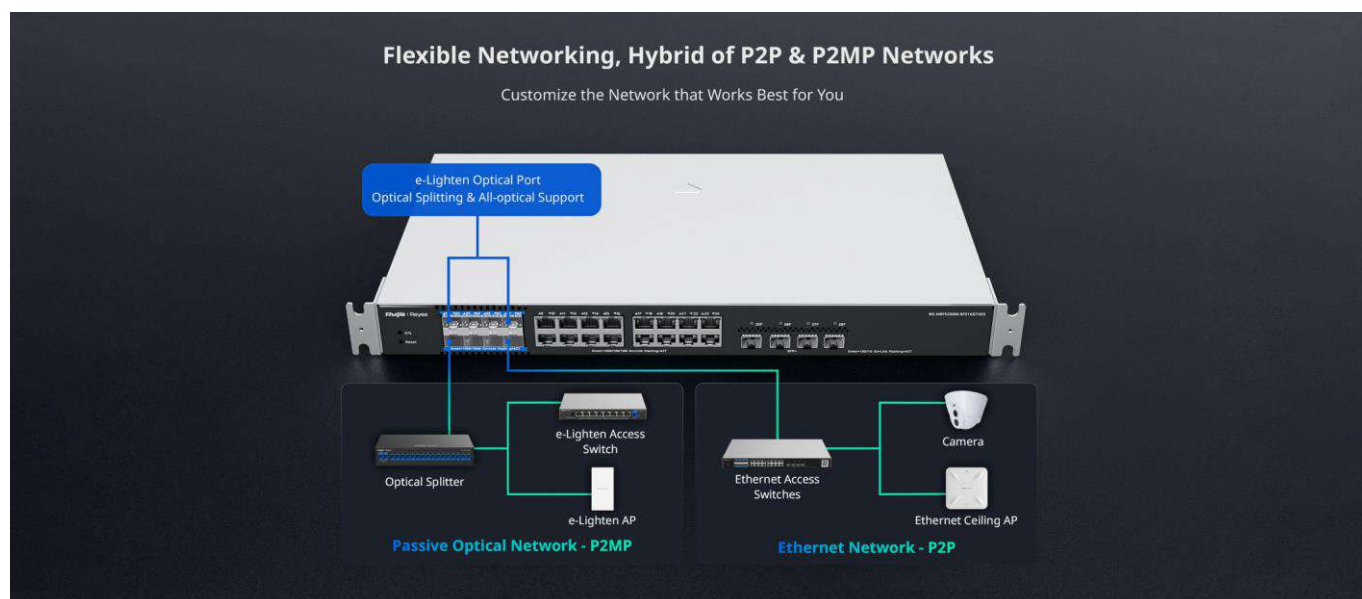
Highlights

- 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



Highlight Features



Cloud, Make Your Business Easy

Pre-Sale Deployment Post-Sale

Easy BOM

Automated validation of the e-Lighten BOM for accuracy

The screenshot shows a cloud management interface with a product list and a risk warning. The risk warning states: "1. Optical transceiver must be added. Otherwise, the e-Lighten Solution cannot be used." The product list includes the following items:

Product Name	Quantity	Unit Price	Total Price	Status	Action
e-Lighten Access Switch (10G/40G/100G/400G/800G/1.6T)	1	1000	1000	Success	Details
e-Lighten Access Switch (10G/40G/100G/400G/800G/1.6T)	1	1000	1000	Success	Details
e-Lighten Access Switch (10G/40G/100G/400G/800G/1.6T)	1	1000	1000	Success	Details
e-Lighten AP (10G/40G/100G/400G/800G/1.6T)	1	1000	1000	Success	Details


Highlight Features

Cloud, Make Your Business Easy

Pre-Sale **Deployment** Post-Sale

Easy Configuration

Unified configuration of optical networks, Ethernet and telephony systems



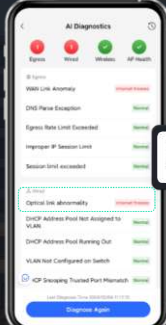
The image shows a smartphone displaying the 'Basic Config' app. The app has a progress bar at the top with three steps: 'Pre-Sale Config', 'Internal Config', and 'Wi-Fi Config'. The 'Basic Config' screen is currently active, showing a 'Basic Config' section with a 'Pre-Sale Config' button and a 'Wi-Fi Config' button. Below this, there is a 'Wi-Fi Config' section with a 'Wi-Fi Config' button and a 'Wi-Fi Config' button. The background of the slide is a dark, stylized image of a modern building at night.

Cloud, Make Your Business Easy

Pre-Sale Deployment **Post-Sale**

Easy Maintenance

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



The image shows a smartphone displaying the 'AI Diagnostics' app. The app has a progress bar at the top with three steps: 'Pre-Sale', 'Deployment', and 'Post-Sale'. The 'Post-Sale' step is currently active, showing a list of diagnostic results. The results are categorized into 'Optical Link Abnormality' and 'Internet Issues'. The 'Optical Link Abnormality' section shows a 'Wi-Fi' status of 'Optical link abnormality' and a 'Wi-Fi' status of 'Internet Issues'. The 'Internet Issues' section shows a 'Wi-Fi' status of 'Optical link abnormality' and a 'Wi-Fi' status of 'Internet Issues'. The background of the slide is a dark, stylized image of a modern building at night.

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**

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