Ruijie | Reyee

RG-NBF2 Series
e-Lighten Access Switches

DATASHEET **Explore More** ▶

/ Highlights

- Passive Optical Networking Support
- Free Layer 2 Cloud Management
- Supports VLAN Assignment
- Supports Remote Reboot of Cameras
- Direct Fiber Connection

/ Highlight Features

NBF2 Series e-Lighten Access Switches

RG-NBF2100S-8GT1SC
e-Lighten 1G Switch 8 x 1G Ethernet Ports, 1 x 1G SC Port

RG-NBF2100S-8GT1SC-P
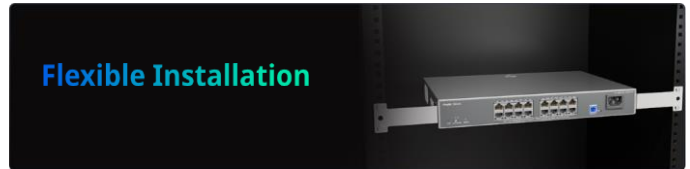e-Lighten 1G PoE+ Switch 8 x 1G PoE+ Ports, 1 x 1G SC Port, 120 W

RG-NBF2100S-16GT1SC-P
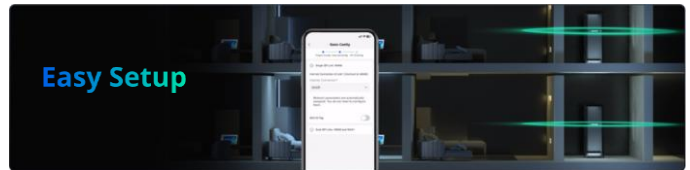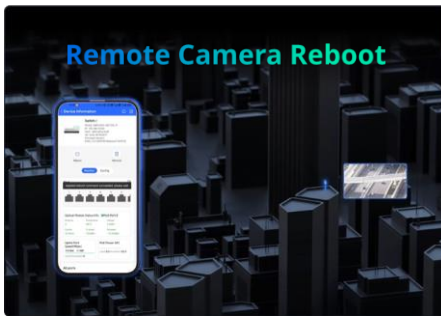e-Lighten 1G PoE+ Switch 16 x 1G PoE+ Ports, 1 x 1G SC Port, 240 W

Direct Fiber Connection
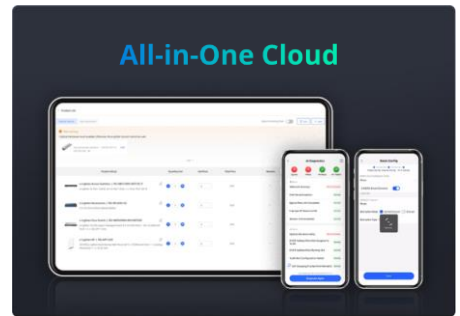
Flexible Installation

Easy Setup

Remote Camera Reboot

Loop Prevention

All-in-One Cloud

Direct Fiber Connection, Plug & Play

Gigabit uplink SC port, fiber module-free
direct connection

Highlight Features

Compact Design, Flexible Installation

Rack Mounting

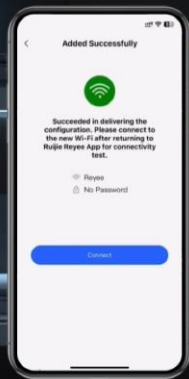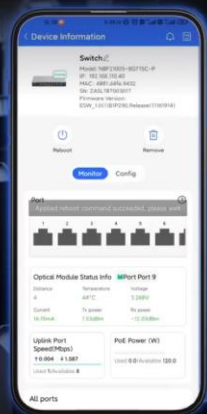Wall Mounting*

Ceiling Mounting*

Desktop Mounting

*Not supported by RG-NBF2100S-16GT1SC-P

Easy Optical Network Setup in 3 Minutes

With our Self-Organizing Networking (SON) technology,
an optical network can be effortlessly set up via Ruijie Cloud.

Remote Camera Reboot, No More On-site Visits*

*Supported by RG-NBF2100S-8GT1SC-P and RG-NBF2100S-16GT1SC-P only. Internet connection is required.

/ Highlight Features

Loop Prevention Ensures Service Continuity

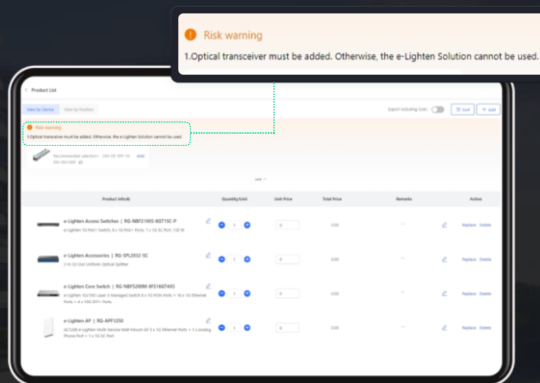Network stays connected even when a network loop occurs

Cloud, Make Your Business Easy

Pre-Sale   Deployment   Post-Sale

Easy BOM

Automated validation of the
e-Lighten BOM for accuracy
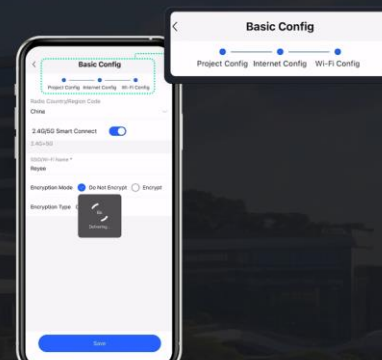
Cloud, Make Your Business Easy

Pre-Sale   Deployment   Post-Sale

Easy Configuration

Unified configuration of optical networks, Ethernet
and telephony systems

Highlight Features

Cloud, Make Your Business Easy

Pre-Sale   Deployment   Post-Sale

Easy Maintenance

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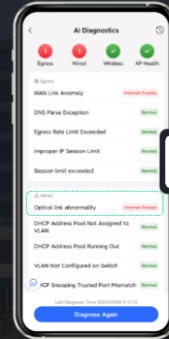
/ Specifications

Model	RG-NBF2100S-8GT1SC	RG-NBF2100S-8GT1SC-P	RG-NBF2100S-16GT1SC-P
Product Information			
Product Type	e-Lighten Access Switch	e-Lighten Access Switch	e-Lighten Access Switch
Product Description	Gigabit managed optical access switch (ONU), PON support, 8 x 10/100/1000BASE-T Ethernet ports, 1 x 1G SC port. Supports remote port reboot, remote switch reboot, VLAN assignment, port isolation, DHCP Snooping. Manageable via Ruijie Reyee App and Ruijie Cloud. Not rack-mountable	Gigabit managed optical access switch (ONU), PON support, 8 x 10/100/1000BASE-T Ethernet ports, 1 x 1G SC port. Maximum PoE output power per device 120 W, maximum PoE output power per port 30 W. Supports remote port reboot, remote switch reboot, VLAN assignment, port isolation, DHCP Snooping. Manageable via Ruijie Reyee App and Ruijie Cloud. Not rack-mountable	Gigabit managed optical access switch (ONU), PON support, 16 x 10/100/1000BASE-T Ethernet ports, 1 x 1G SC port. Maximum PoE output power per device 240 W, maximum PoE output power per port 30 W. Supports remote port reboot, remote switch reboot, VLAN assignment, port isolation, DHCP Snooping. Manageable via Ruijie Reyee App and Ruijie Cloud. Not rack-mountable
Hardware Specifications			
Number of 1000BASE-T Ports	8	8	16
Number of 1G SC Ports	1	1	1
Recommended Client Limits	100	100	100
Recommended Camera Limits	2MP H265:50 4MP H265:25	2MP H265:50 4MP H265:25	2MP H265:50 4MP H265:25
PoE Support	N/A	Yes	Yes
PoE Standards	N/A	IEEE802.af, IEEE802.3at	IEEE802.af, IEEE802.3at
Max. PoE Output Power per Device	N/A	120 W	240 W
Max. Number of PoE Ports	0	8	16
Max. PoE Output Power per Port	N/A	30 W	30 W
Switching Capacity	18 Gbps	18 Gbps	34 Gbps
Forwarding Rate	13.392 Mpps	13.392 Mpps	25.296 Mpps
Port Surge Protection	Common: 6 kV	Common: 6 kV	Common: 6 kV

Model	RG-NBF2100S-8GT1SC	RG-NBF2100S-8GT1SC-P	RG-NBF2100S-16GT1SC-P
Operating Temperature	0°C to 45°C (32°F to 113°F)	0°C to 40°C (32°F to 104°F)	0°C to 45°C (32°F to 113°F)
Mounting	Desktop	Desktop	Desktop/rack
Reset Button	Yes	Yes	Yes
LEDs	System System LED: green LINK/ACT: RJ45 port LED: green LINK/ACT: SFP port LED: green	System System LED: green LINK/ACT: RJ45 port LED: green LINK/ACT: SFP port LED: green	System System LED: green LINK/ACT: RJ45 port LED: green LINK/ACT: SFP port LED: green
Operating Humidity	10% to 90% RH	10% to 90% RH	10% to 90% RH
Number of Fans	No	No	1
Digital Diagnostic Monitoring (DDM) (Temperature/Voltage/Current/ Rx Power/Tx Power)	Yes	Yes	Yes
Max. Uplink Bandwidth Supported by a 1G ONU	>=900 Mbps	>=900 Mbps	>=900 Mbps
Max. Downlink Bandwidth Supported by a 1G ONU	997 Mbps	997 Mbps	997 Mbps
Min. Uplink Bandwidth Supported by a 1G ONU	10 Mbps	10 Mbps	10 Mbps
Dynamic Bandwidth Allocation (DBA)	Yes	Yes	Yes
Static Bandwidth Allocation (SBA)	Yes	Yes	Yes
Dynamic Bandwidth Allocation (DBA): Maximum Bandwidth for ONUs	Yes	Yes	Yes
Software Features			
VLAN	Yes	Yes	Yes
Max. Number of VLANs	16	16	16
Port Isolation/Protected Ports	Yes	Yes	Yes
Port Mirroring	Yes	Yes	Yes
ACL	No	No	No

Model	RG-NBF2100S-8GT1SC	RG-NBF2100S-8GT1SC-P	RG-NBF2100S-16GT1SC-P
Port Flow Control	Yes	Yes	Yes
Network Management Support	Yes	Yes	Yes
Hardware-based CPU Protection Policy (CPP)	Yes	Yes	Yes
Network Foundation Protection Policy (NFPP)	No	No	No
Management via Ruijie Reyee App	Yes	Yes	Yes
Web Management	Yes	Yes	Yes
Management via Ruijie Cloud	Yes	Yes	Yes

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Redefine your easy network

Ruijie Networks Co., Ltd.
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