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New RG-ES0/ES100 Series Unmanaged Switch Family

DATASHEET Explore More



Highlights

- Visible on Ruijie Cloud Even Unmanaged
- Intelligent and Secure CCTV Network
- Intelligent PoE Management
- High-Quality Design

Highlight Features

New RG-ES0 RG-ES100 Series Unmanaged switch



Plug & play

Max. 30W on Each Port

3 Years Warranty

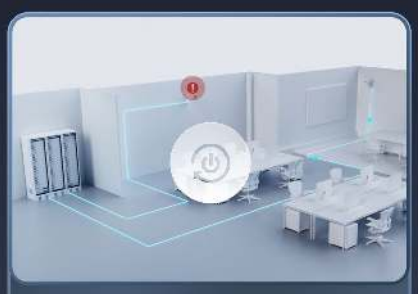
Energy Saving

Unmanaged Switch,Which Is Visible on Ruijie Cloud*

*If an unmanaged switch needs to be visualized on Ruiiie Cloud, at least one managed switch needs to be deployed on the same network



Intelligent and Secure CCTV Network



Watchdog



Extend Mode



Port Isolation

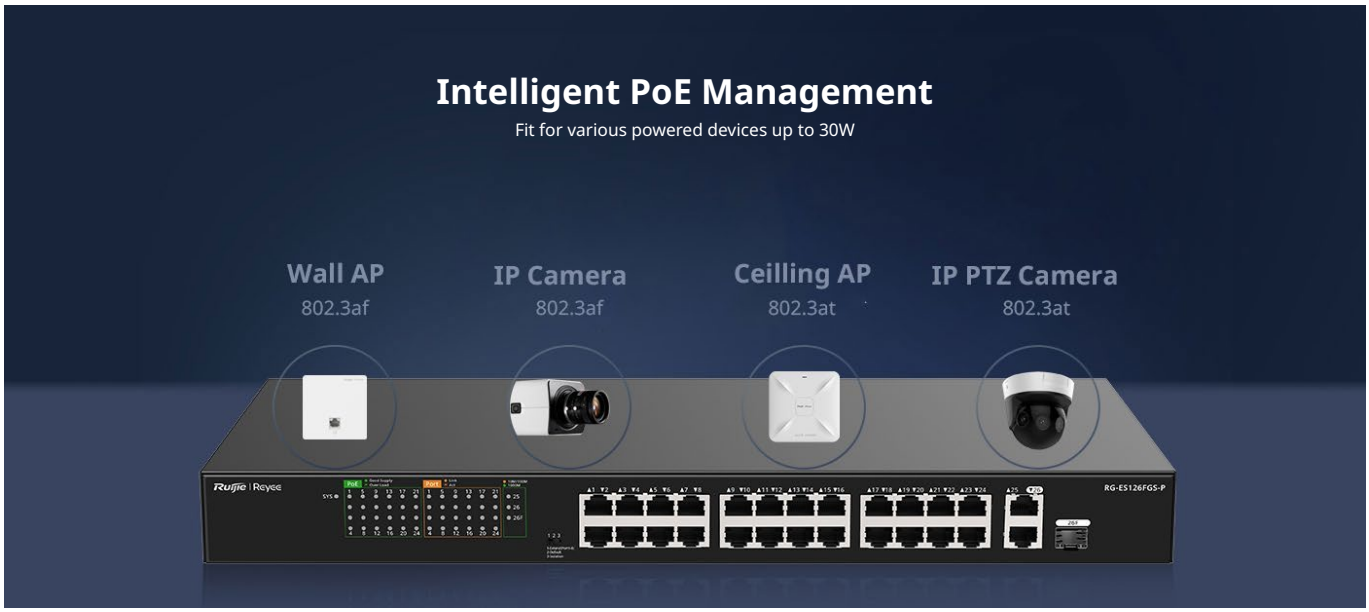
PoE Auto Recovery

250 Meters Transmission

Fexible Extend mode

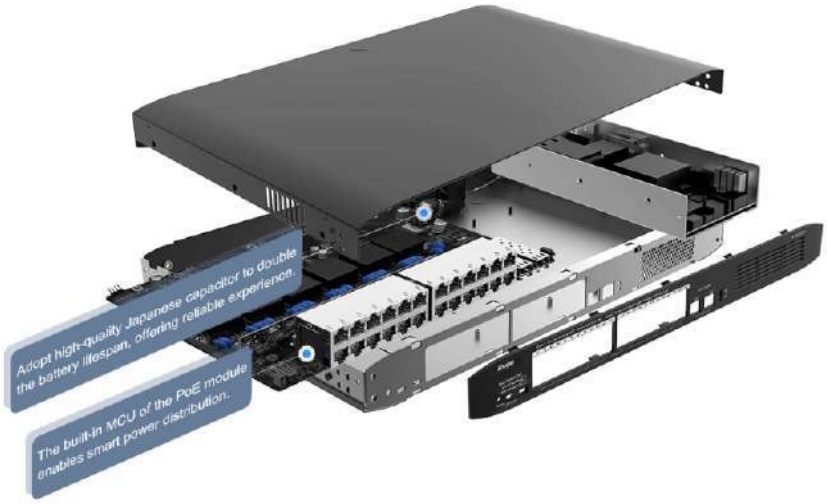
Higher security

Highlight Features



Better Quality Design

Strict standards in PCB design and component selection



Designed for Various Scenarios









Specifications

Specifications	RG-ES05F	RG-ES08F	RG-ES05G-L	RG-ES08G-L	RG-ES116G-L	RG-ES124G-L	RG-ES106F-P
Basic							
Total Number of RJ45 Ports	5	8	5	8	16	24	6
Number of 10/100BASE-T Ports	5	8	N/A	N/A	N/A	N/A	6
Number of 10/100/1000BASE-T Ports	N/A	N/A	5	8	16	24	N/A
Number of PoE/PoE+ Ports	N/A	N/A	N/A	N/A	No	No	4
Max. PoE Power Budget	N/A	N/A	N/A	N/A	No	No	54W
PoE Power Pins	N/A	N/A	N/A	N/A	No	No	1 2+, 3 6-
Extend Mode (Long-Range Transmission)	N/A	N/A	N/A	N/A	No	No	Yes
Layer	L2	L2	L2	L2	L2	L2	L2
Switching Capacity	1Gbps	1.6Gbps	10Gbps	16Gbps	32Gbps	48Gbps	1.2Gbps
Forwarding Rate	0.744Mpps	1.19Mpps	7.44Mpps	11.9Mpps	23.8Mpps	35.7Mpps	0.89Mpps
Buffer Size	768Kbits	768Kbits	1Mbits	1.5Mbits	4.1Mbits	4.1Mbits	768Kbits
Flash Memory	N/A	N/A	1MB	1MB	4MB	4MB	2MB
MAC Address Table Size	N/A	N/A	N/A	N/A	8K	8K	2K
Dimensions (W x D x H)	85*52*23.5mm	124*60*24mm	85*52*23.5mm	124*60*24mm	280*125*43.6 mm	280*125*43.6 mm	166*132.6*43 mm
Net Weight	49.5g	82g	57g	104g	1.049kg	1.120kg	0.65kg
Mean Time Between Failure (MTBF)	>200K	>200K	>200K	>200K	>200K	>200K	>200K
Safety Compliance	EN 62638-1	EN 62638-1	EN 62638-1	EN 62638-1	EN 62638-1	EN 62638-1	EN 62638-1
Warranty	3	3	3	3	3	3	3

Specifications	RG-ES05F	RG-ES08F	RG-ES05G-L	RG-ES08G-L	RG-ES116G-L	RG-ES124G-L	RG-ES106F-P
Layer2 features							
Jumbo Frame Length (MTU)	N/A	N/A	N/A	N/A	10000 Bytes	10000 Bytes	2048 Bytes
Flow Control	N/A	N/A	N/A	N/A	Yes	Yes	Yes
Port Isolation / Protected Port	N/A	N/A	N/A	N/A	Yes	Yes	Yes
Hardware Specifications							
DIP Switch	No	No	No	No	Default mode： All ports can communicate with each other，and Flow Control On Flow Control Off Isolation mode： When port isolation is eN/Abled, ports 1-14 are isolated from each other, but can communicate with ports 15 and 16.Flow Control On	Default mode： All ports can communicate with each other，and Flow Control On Flow Control Off Isolation mode： When port isolation is eN/Abled, ports 1-22 are isolated from each other, but can communicate with ports 23 and 24.Flow Control On	Extend mode: The rate of Ports 1 to 4 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cate5e cables required).，Flow Control On Default mode: All ports can communicate with each other，Flow Control On. Isolation mode: Ports 1 to 4 cannot communicate with each other, but they can communicate with ports 5 and 6.Flow Control On
Cable Hot-Swappable	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Specifications	RG-ES05F	RG-ES08F	RG-ES05G-L	RG-ES08G-L	RG-ES116G-L	RG-ES124G-L	RG-ES106F-P
Power Supply	AC input Rated voltage range: 100V to 240V Maximum voltage range: 90V to 264V Frequency: 50/60 Hz Rated current: 0.3A Adapter output Rated voltage range: 5V DC Rated current range: 1A	AC input Rated voltage range: 100V to 240V Maximum voltage range: 90V to 264V Frequency: 50/60 Hz Rated current: 0.3A Adapter output Rated voltage range: 5V DC Rated current range: 1A	AC input Rated voltage range: 100V to 240V Maximum voltage range: 90V to 264V Frequency: 50/60 Hz Rated current: 0.3A Adapter output Rated voltage range: 5V DC Rated current range: 1A	AC input Rated voltage range: 100V to 240V Maximum voltage range: 90V to 264V Frequency: 50/60 Hz Rated current: 0.3A Adapter output Rated voltage range: 5V DC Rated current range: 1A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 0.6A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 0.6A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 2.0A
Power Consumption	≤1.4W	≤2.3W	≤2.1W	≤3.47W	≤11W	≤6W	Less than 6W with no PoE load Less than 60W with PoE full load
Port Surge Protection	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV
Power Supply Surge Protection	Common Mode：2KV Differential mode 1KV	Common Mode：2KV Differential mode 1KV	Common Mode：2KV Differential mode 1KV	Common Mode：2KV Differential mode 1KV	Common Mode：6KV Differential mode 6KV	Common Mode：6KV Differential mode 6KV	Common Mode：6KV Differential mode 6KV
Acoustic Noise Level	Noiseless	Noiseless	Noiseless	Noiseless	Fanless	Fanless	Fanless
Operating Temperature	0 to 45°C	0 to 45°C	0 to 45°C	0 to 45°C	0 to 45°C	0 to 45°C	0 to 45°C
Storage Temperature	-40℃～75℃	-40℃～75℃	-40℃～75℃	-40℃～75℃	-40~70℃	-40~70℃	-40~70℃
Operating Humidity	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)
Storage Humidity	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)

Specifications	RG-ES05F	RG-ES08F	RG-ES05G-L	RG-ES08G-L	RG-ES116G-L	RG-ES124G-L	RG-ES106F-P
Electrostatic Discharge (ESD) Protection	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV
Casing	Plastic	Plastic	Plastic	Plastic	Metal	Metal	Metal
Mounting	Wall-mount and Desk-type	Wall-mount and Desk-type	Wall-mount and Desk-type	Wall-mount and Desk-type	Rack installation	Rack installation	Wall-mount and Desk-type
LEDs	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green) Per PoE+ Interface: SUPPLY/Over Load（Green)
Operating Altitude (m)	-500~5000M	-500~5000M	-500~5000M	-500~5000M	-500~5000M	-500~5000M	-500~5000M
Certification	CE	CE	CE、FCC	CE、FCC	CE	CE	CE
EMC	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017 ETSI EN 300 386 V2.1.1 (2016-07)	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017 ETSI EN 300 386 V2.1.1 (2016-07)	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017 ETSI EN 300 386 V2.1.1 (2016-07)	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017 ETSI EN 300 386 V2.1.1 (2016-07)	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017 ETSI EN 300 386 V2.1.1 (2016-07)	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017 ETSI EN 300 386 V2.1.1 (2016-07)	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017 ETSI EN 300 386 V2.1.1 (2016-07)

Specifications

Specifications	RG-ES110F-P	RG-ES110FG-P	RG-ES110GS-P-L	RG-ES118FGS-LP	RG-ES118GS-P-L	RG-ES126FGS-P	RG-ES126FGS-LP
Basic							
Total Number of RJ45 Ports	10	10	9	18	16	26	26
Total Number of Optical Ports	N/A	N/A	1	2	2	1	1
Number of Combo Ports	N/A	N/A	N/A	2	N/A	1	1
Number of 1 Gbps Optical Ports (SFP)	N/A	N/A	1	2	2	1	1
Number of 10/100BASE-T Ports	10	8	N/A	16	N/A	24	24
Number of 10/100/1000BASE-T Ports	N/A	2	9	2	18	2	2
Number of PoE/PoE+ Ports	8	8	8	16	16	24	24
Max. PoE Power Budget	110W	110W	120W	120W	247W	370W	180W
PoE Power Pins	1 2+, 3 6-	1 2+, 3 6-	1 2+, 3 6-	1 2+, 3 6-	1 2+, 3 6-	1 2+, 3 6-	1 2+, 3 6-
Extend Mode (Long-Range Transmission)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Layer	L2	L2	L2	L2	L2	L2	L2
Switching Capacity	2.0Gbps	5.6Gbps	20Gbps	7.2Gbps	36Gbps	8.8Gbps	8.8Gbps
Forwarding Rate	1.48Mpps	4.17Mpps	14.8Mpps	5.35Mpps	26.8Mpps	6.55Mpps	6.55Mpps
Buffer Size	4Mbits	4Mbits	1.5Mbits	4Mbits	4.1Mbits	4Mbits	4Mbits
Flash Memory	2MB	2MB	2MB	4MB	4MB	4MB	4MB
MAC Address Table Size	8K	8K	4K	8K	8K	8K	8K
Dimensions (W x D x H)	166*132.6*43 mm	166*132.6*43 mm	190*150*43 mm	440mm*214.9mm*44mm	440mm*214.9mm*44mm	440mm*214.9mm*44mm	440mm*214.9mm*44mm
Net Weight	0.97kg	0.97kg	0.97kg	2.46kg	2.57kg	2.62kg	2.64kg

Specifications	RG-ES110F-P	RG-ES110FG-P	RG-ES110GS-P-L	RG-ES118FGS-LP	RG-ES118GS-P-L	RG-ES126FGS-P	RG-ES126FGS-LP
Mean Time Between Failure (MTBF)	>200K	>200K	>200K	>200K	>200K	>200K	>200K
Safety Compliance	EN 62638-1	EN 62638-1	EN 62638-1	EN 62638-1	EN 62638-1	EN 62638-1	EN 62638-1
Warranty	3	3	3	3	3	3	3
Layer2 features							
Jumbo Frame Length (MTU)	2048 Bytes	2048 Bytes	9216 Bytes	2048 Bytes	10000 Bytes	2048 Bytes	2048 Bytes
Flow Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port Isolation / Protected Port	Yes	Yes	Yes	Yes	Yes	Yes	Yes
PoE Watchdog	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hardware Specifications							
DIP Switch	Extend mode: The rate of Ports 1 to 8 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cate5e cables required).Flow Control On Default mode: All ports can communicate with each other.Flow Control On Isolation mode: Ports 1 to 8 cannot communicate with each	Extend mode: The rate of Ports 1 to 8 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cate5e cables required).Flow Control On Default mode: All ports can communicate with each other.Flow Control On Isolation mode: Ports 1 to 8 cannot communicate with each	Extend mode: The rate of Ports 1 to 8 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cate5e cables required).Flow Control On Default mode: All ports can communicate with each other.Flow Control On Isolation mode: Ports 1 to 8 cannot communicate with each other, but	Extend mode: The rate of Ports 1 to 8 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cate5e cables required).Flow Control On Default mode: All ports can communicate with each other.Flow Control On Isolation mode: Ports 1 to 16 cannot communicate	Extend mode: The rate of Ports 1 to 8 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cate5e cables required).Flow Control On Default mode: All ports can communicate with each other.Flow Control On Isolation mode: Ports 1 to 16 cannot communicate with each other, but	Extend mode: The rate of Ports 1 to 8 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cate5e cables required).Flow Control On Default mode: All ports can communicate with each other.Flow Control On Isolation mode: Ports 1 to 24 cannot communicate	Extend mode: The rate of Ports 1 to 8 is reduced to 10 Mbps, but the maximum transmission distance can be up to 200 meters (Cate5e cables required).Flow Control On Default mode: All ports can communicate with each other.Flow Control On Isolation mode: Ports 1 to 24 cannot communicate with each other, but

Specifications	RG-ES110F-P	RG-ES110FG-P	RG-ES110GS-P-L	RG-ES118FGS-LP	RG-ES118GS-P-L	RG-ES126FGS-P	RG-ES126FGS-LP
	other, but they can communicate with ports 9 and 10.Flow Control On	other, but they can communicate with ports G1 and G2.Flow Control On	they can communicate with ports 9 and 10.Flow Control On	with each other, but they can communicate with ports 17 and 18.Flow Control On	they can communicate with ports 17 and 18.Flow Control On	with each other, but they can communicate with ports 25 and 26.Flow Control On	they can communicate with ports 25 and 26.Flow Control On
Cable Hot-Swappable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Supply	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 3.0A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 3.0A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 3.0A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 3.0A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 4.5A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 6.0A	Rated voltage range: 100-240V~ Maximum voltage range: 90-264V~ Frequency: 50/60Hz Rated current: 3.5A
Power Consumption	Less than 10W with no PoE load Less than 120W with PoE full load	Less than 10W with no PoE load Less than 120W with PoE full load	Less than 10W with no PoE load Less than 130W with PoE full load	Less than 10W with no PoE load Less than 130W with PoE full load	Less than 20W with no PoE load Less than 267W with PoE full load	Less than 20W with no PoE load Less than 390W with PoE full load	Less than 20W with no PoE load Less than 200W with PoE full load
Port Surge Protection	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV	Common Mode 4KV
Power Supply Surge Protection	Common Mode：6KV Differential mode 4KV	Common Mode：6KV Differential mode 4KV	Common Mode：6KV Differential mode 4KV	Common Mode：6KV Differential mode 6KV	Common Mode：6KV Differential mode 6KV	Common Mode：6KV Differential mode 6KV	Common Mode：6KV Differential mode 6KV
Acoustic Noise Level	Fanless	Fanless	Fanless	<40dB (when the device works normally)	<45dB (when the device works normally)	<40dB (when the device works normally)	<40dB (when the device works normally)
Operating Temperature	0 to 45°C	0 to 45°C	0 to 45°C	0 to 45°C	0 to 45°C	0 to 45°C	0 to 45°C
Storage Temperature	-40~70°C	-40~70°C	-40~70°C	-40~70°C	-40~70°C	-40~70°C	-40~70°C

Specifications	RG-ES110F-P	RG-ES110FG-P	RG-ES110GS-P-L	RG-ES118FGS-LP	RG-ES118GS-P-L	RG-ES126FGS-P	RG-ES126FGS-LP
Operating Humidity	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)	10% to 90% RH(non-condensing)
Storage Humidity	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)	5% to 95% RH(non-condensing)
Electrostatic Discharge (ESD) Protection	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV	Air Discharge: 8KV Contact Discharge: 6KV
Casing	Metal	Metal	Metal	Metal	Metal	Metal	Metal
Mounting	Wall-mount and Desk-type	Wall-mount and Desk-type	Wall-mount and Desk-type	Rack installation	Rack installation	Rack installation	Rack installation
LEDs	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green) Per PoE+ Interface: SUPPLY/Over Load（Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green) Per PoE+ Interface: SUPPLY/Over Load（Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green) Per PoE+ Interface: SUPPLY/Over Load（Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Yellow) Per SFP Interface: LINK/ACT(Green) Per PoE+ Interface: SUPPLY/Over Load（Green)	System: SYS(Green) Per RJ45 PoE+ Ports: LINK/ACT(Green) Per SFP Interface: LINK/ACT(Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Yellow) Per SFP Interface: LINK/ACT(Green) Per PoE+ Interface: SUPPLY/Over Load（Green)	System: SYS(Green) Per RJ45 Ports: LINK/ACT(Yellow) Per SFP Interface: LINK/ACT(Green) Per PoE+ Interface: SUPPLY/Over Load（Green)
Operating Altitude (m)	-500~5000M	-500~5000M	-500~5000M	-500~5000M	-500~5000M	-500~5000M	-500~5000M
Certification	CE	CE	CE	CE	CE	CE	CE
EMC	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017	EN 55032:2015+ AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017

Specifications	RG-ES110F-P	RG-ES110FG-P	RG-ES110GS-P-L	RG-ES118FGS-LP	RG-ES118GS-P-L	RG-ES126FGS-P	RG-ES126FGS-LP
	ETSI EN 300 386 V2.1.1 (2016-07)	ETSI EN 300 386 V2.1.1 (2016-07)	ETSI EN 300 386 V2.1.1 (2016-07)	ETSI EN 300 386 V2.1.1 (2016-07)	ETSI EN 300 386 V2.1.1 (2016-07)	ETSI EN 300 386 V2.1.1 (2016-07)	ETSI EN 300 386 V2.1.1 (2016-07)

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Redefine your easy network

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