



Huawei Enterprise Microwave

Portfolio



HUAWEI

01

RTN510



Unlicensed PMP Microwave

Specification

Frequency band

AP (Access Point)

RT (Remote Terminal)

4910–5970 MHz

Channel spacing

10 | 20 | 40 | 80 MHz

Modulation scheme

MCS0–MCS9

Maximum air-interface capacity

750 Mbps

250 Mbps

Antenna gain

17 dBi

16 dBi

Dimensions (H x W x D)

204 mm x 204 mm x 65 mm

241 mm x 168 mm
x 52 mm

Ethernet service port

1*GE(o), 1* GE(e), 1*GE (PoE)

1*GE (PoE)

Weight

2.7 kg

1.8 kg

Power supply

AC/DC (with extra Power Injector)
Power over Ethernet

Surge protection

6 kV

10 kV

Dying gasp

Supported

Network management tool

Web LCT/mobile app/eSight/U2000

Protection class

IP67

Operating temperature

–40 °C to +60 °C

Anti-salt spray corrosion

Complies with the IEC 60068- 2-11 standard (four weeks of salt spray corrosion test) and applies to seaside scenarios.

Key feature

Adaptive modulation (AM), dynamic frequency selection (DFS), GPS synchronization, VLAN, QinQ, QoS, AES-256 encryption, whitelist, RADIUS authentication

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RTN 905 2E



IP Microwave IDU

Application	Access layer
Dimensions (H x W x D)	44 mm × 442 mm × 220 mm
Height	1U
Number of directions	2
Frequency band	6 - 42 GHz
Channel spacing	3.5/7/14/28/40/56 MHz
Highest modulation scheme	2048QAM
Maximum air-interface capacity	504–636 Mbit/s (per carrier)
Switching capacity	8 Gbit/s
Cross-connect capacity	8 × 8 VC-4
Port type	E1, STM- 1(o/e), FE(o/e), GE(o/e), 2.5GE(o)
RF configuration mode	2 × (1+0), 2+0, 1+1 HSB/FD/SD, XPIC
Service type	TDM, IP
Key feature	1+1 HSB/FD/SD, XPIC, AM, PWE3/MPLS, PLA/EPLA, 1588v2, SDB, Anti-theft

Application	Access/Aggregation layer
Dimensions (H x W x D)	88 mm × 442 mm × 220 mm
Height	2U
Number of directions	10
Frequency band	6 - 42 GHz
Channel spacing	3.5/7/14/28/40/56/112 MHz
Highest modulation scheme	4096QAM
Maximum air-interface capacity	1018–1283 Mbit/s (per carrier)
Switching capacity	10 Gbit/s
Cross-connect capacity	32 x 32 VC-4
Service port type	E1, T1, STM-1(o/e), FE(o/e), GE(o/e), 2.5GE(o), 10GE(o)
RF configuration mode	N+0 ($N \leq 10$), $N \times (1+0)$ ($N \leq 10$), 1+1 HSB/SD/FD, N+1 ($N \leq 7$), XPIC
Service type	TDM, IP
Key feature	1+1 HSB/FD/SD, XPIC, PLA/EPLA/EPLA+, AM, PWE3/MPLS, SDB, N+1, 1588v2, AES-256 encryption, Anti-theft



03

RTN 950A

04

RTN 950



IP Microwave IDU

Application	Access/aggregation layers
Dimensions (H x W x D)	88 mm × 442 mm × 220 mm
Height	2U
Number of directions	8
Frequency band	6 - 42 GHz
Channel spacing	3.5/7/14/28/40/56/112 MHz
Highest modulation scheme	4096QAM
Maximum air-interface capacity	1018–1283 Mbit/s (per carrier)
Switching capacity	10 Gbit/s
Cross-connect capacity	32 x 32 VC-4
Port type	E1, STM- 1(o/e), FE(o/e), GE(o/e), 2.5GE(o), 10GE(o)
RF configuration mode	N+0 (N ≤ 8), N x (1+0) (N ≤ 8), 1+1 HSB/FD/SD, N+1 (N ≤ 7), XPIC
Service type	TDM, IP
Key feature	1+1 HSB/FD/SD, XPIC, PLA/EPLA/EPLA+, AM, N+1, PWE3/MPLS, SDB, 1588v2, AES-256 encryption, Anti-theft

IP Longhaul Microwave

Product positioning	IP Longhaul Microwave
Component	IDU, BU, RFU
Number of channels	14
Frequency band	5/L6/U6/7/8/11 GHz
Channel spacing	28/40/56 MHz
Highest modulation scheme	1024QAM
Maximum air-interface capacity	440 -558 Mbit/s (per carrier)
Switching capacity	43 Gbit/s (CSHL) 120 Gbit/s (CSHLU)
Cross-connect capacity	128 x 128 VC-4
Service port type	E1, STM-1(o/e), STM-4(o), FE(o/e), 2.5 GE(o), GE(o/e), 10GE(o)
RF configuration mode	N+0 (N≤14) N+1 (N≤11) 1+1 FD XPIC
IF service type	TDM, IP
Key feature	1+1 FD, XPIC, PLA/EPLA/EPLA+, AM, SD and IF combination, PWE3/MPLS, N+1, AES-256 encryption, Anti-theft



05

RTN 980L

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RTN 320



Full-outdoor IP Microwave

Dimensions (H x W x D)	7-11 GHz: 260 mm x 210 mm x 106 mm 13-38 GHz: 260 mm x 210 mm x 101 mm
Number of directions	2
Frequency band	6 - 42 GHz
Channel spacing	ETSI: 7/14/28/40/56/112 MHz FCC: 30/40/50 MHz
Highest modulation scheme	4096QAM
Maximum air-interface capacity	2.4 Gbit/s
Switching capacity	8 Gbit/s
RF configuration mode	N+0 (N ≤ 4) (When N > 2, NEs must be cascaded.) 1+1 HSB/FD/SD XPIC MIMO Multi-direction site
Port type	FE(o/e), GE(o/e), 2.5GE(o)
Service type	Native ETH, PWE3 ETH
Power supply	DC power Power over Ethernet (with the RTN B20 PI)
ODU	The integrated ODU supports the 7–38 GHz frequency band. The extended ODU can be the RTN XMC-2/2H/3 series ODU that supports the 6–42 GHz frequency band.
Key feature	AM, 1+1 HSB/FD/SD, XPIC, ATPC, PLA/EPLA, SDB, AES-256 encryption, Anti-theft

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RTN 380



E-band Microwave

Dimensions (H x W x D)	265 mm × 265 mm × 65 mm
Number of directions	1
Frequency band	71 - 76 GHz, 81 - 86 GHz
Channel spacing	62.5/125/250/500/750 MHz
Highest modulation scheme	64QAM
Maximum air-interface capacity	4 Gbit/s
Switching capacity	8 Gbit/s
RF configuration mode	1+0, 2+0, 1+1 HSB, CCDP Multi-direction configuration
Port type	FE(o/e), GE(o/e), 2.5GE(o)
Service type	Native ETH, PWE3 ETH
Power supply	Power over Ethernet
Antenna	Dish antenna Wide-beam antenna Panel antenna
Key feature	AMAC, 1+1 HSB, ATPC, PLA, SDB, Anti-theft

10G E-band Microwave

Dimensions (H x W x D)	320 mm × 265 mm × 95 mm
Number of directions	1
Frequency band	71 - 76, 81 - 86 GHz
Channel spacing	62.5/125/250 /500/750/1000/1500/2000 MHz
Highest modulation scheme	1024QAM
Maximum air-interface capacity	10 Gbit/s
Switching capacity	42 Gbit/s
RF configuration mode	1+0, 2+0, 1+1 HSB, XPIC, CCDP Multi-direction mode
Port type	FE(e),GE(o/e), 2.5GE(o), 10GE(o)
Service type	Native ETH, PWE3 ETH
Power supply	Power over Ethernet (with the RTN B20 PI)
Antenna	Dish antenna Wide-beam antenna Panel antenna
Key feature	AMAC, 1+1 HSB, XPIC, ATPC, PLA, SDB, Anti-theft



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RTN 380H

Huawei 3DLive+



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