

Overview

The Huawei RTN 380 operates at 71–76/81–86 GHz frequency bands (E-band). Compared with common-band microwave devices (6–42 GHz), the RTN 380 features large capacity, low inter-site interference, and rich spectrum resources. The RTN 380 provides 4 Gbps microwave backhaul or aggregation links. It is mainly used for mobile backhaul, fixed-network backhaul, and enterprise private networks. It can also be used as a supplement to metro optical networks as well as for CPRI service backhaul between BBUs and RRUs.

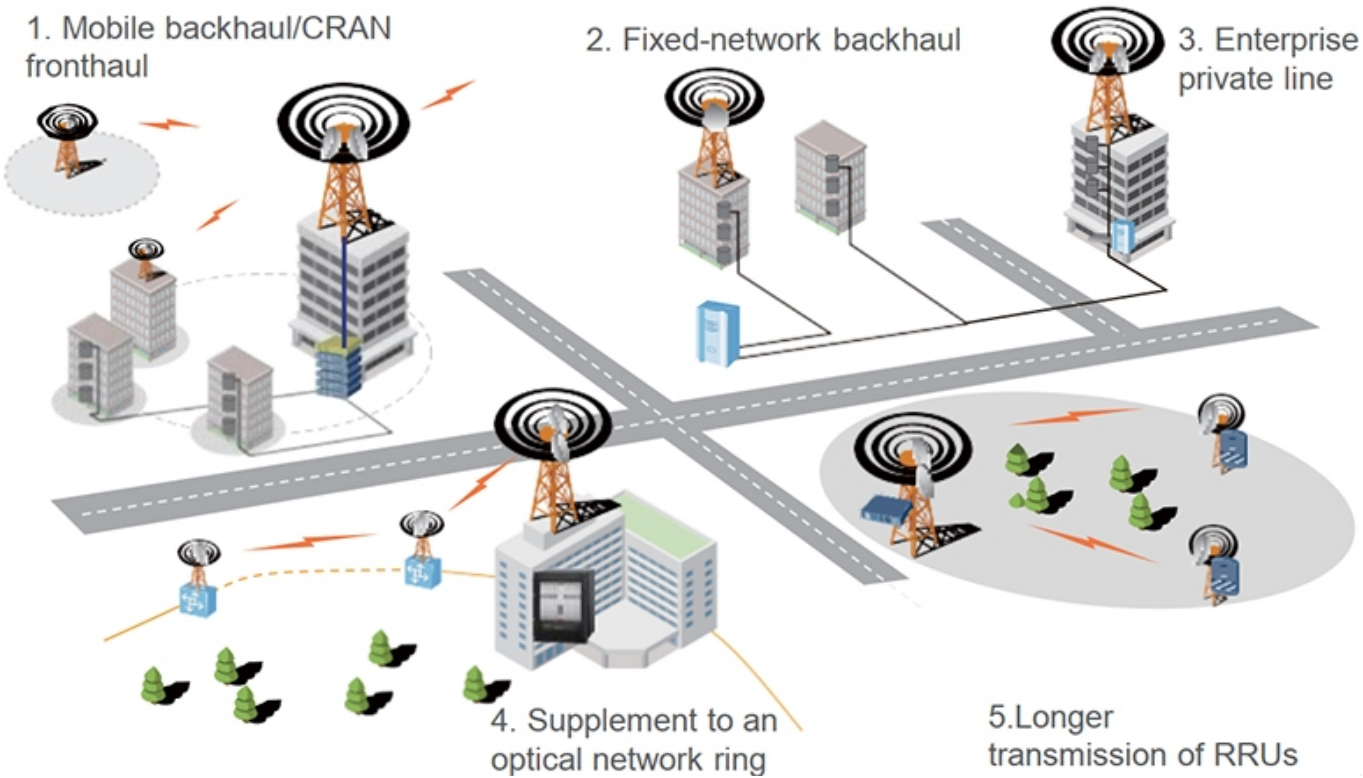
Quick Spec

Table 1 shows the quick spec.

Model	Huawei OptiX RTN 380
Microwave Type	• IP microwave over Native Ethernet/PWE3 Ethernet • Microwave for transmitting CPRI services
Frequency Band	71–76/81–86 GHz
Channel Spacing	62.5 MHz, 125 MHz, 250 MHz, 500 MHz, 750 MHz
Modulation Scheme	QPSK Strong, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM
Capacity	Air-interface capacity: 3.2 Gbps Air-interface throughput: 4 Gbps Switching capacity: 8 Gbps

Product Details

Figure 1 shows the Huawei OptiX RTN 380 Application Scenarios.



Huawei OptiX RTN 380 provides these features:

(1) Ultra-High Bandwidth and High Spectral Efficiency

- **Large capacity:** provides 4 Gbps microwave links for sites.
- **Large channel bandwidth:** provides a channel bandwidth of up to 750 MHz.

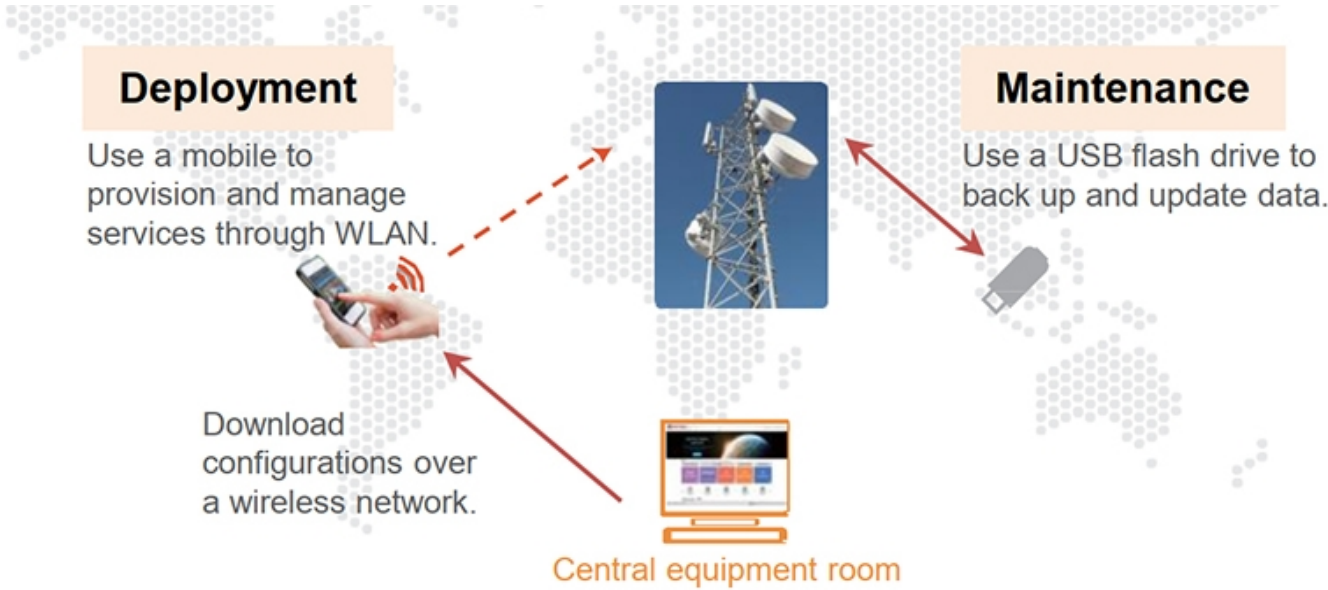
- **High modulation mode:** provides a modulation scheme of up to 64QAM.
- **Super Dual Band:** works as a slave device to bond with the RTN 900 to provide the Super Dual Band solution. Through this solution, high-bandwidth, long distance, and highly-available backhaul links can be provided. In addition, through the Super Dual Band Relay solution, the transmission distance of E-band microwave links can be extended further.
- **AMAC:** supports adaptive modulation and adaptive channel bandwidth (AMAC) to ensures the transmission of high-priority services.

(2) Flexible Link Configuration and Full-Range Protection

- **Link configuration:** 1+0, 2+0, 2 x (1+0)
- **Link-level protection:** 1+1 HSB, PLA
- **Service-level protection:** LAG protection
- **Network-level protection:** ERPS, MSTP protection, MPLS tunnel 1:1 protection, PW 1:1 APS/FPS

(3) Easy Deployment & Maintenance

- Supports zero footprint installation, quick deployment, and easy maintenance.
- Supports connection to NEs at a site through WLAN, implementing contactless maintenance.
- Supports mobile APP-based service commissioning and configuration during site deployment, making operations convenient.
- Supports use of the NCE to implement E2E management, such as service deployment and real-time performance monitoring.



Compare to Similar Items

Table 2 shows the comparison.

Model	Huawei OptiX RTN 320F	Huawei OptiX RTN 380
Microwave Type	IP microwave over Native Ethernet	• IP microwave over Native Ethernet/PWE3 Ethernet • Microwave for transmitting CPRI services
Frequency Band	6-42 GHz	71–76/81–86 GHz
Channel Spacing	ETSI: 7 MHz, 14 MHz, 28 MHz, 40 MHz, 56 MHz, 112 MHz FCC: 30 MHz, 40 MHz, 50 MHz	62.5 MHz, 125 MHz, 250 MHz, 500 MHz, 750 MHz
Modulation Scheme	QPSK strong-4096QAM	QPSK Strong, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM
Capacity	Air-interface capacity: 2.24 Gbps (the total capacity of two channels) Air-interface throughput: 5 Gbps (the total capacity of two channels) Switching capacity: 60 Gbps	Air-interface capacity: 3.2 Gbps Air-interface throughput: 4 Gbps Switching capacity: 8 Gbps

Get More Information

Do you have any question about the Huawei OptiX RTN 380?

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Specification

Huawei OptiX RTN 380 Specification	
Microwave Type	• IP microwave over Native Ethernet/PWE3 Ethernet • Microwave for transmitting CPRI services
Frequency Band	71–76/81–86 GHz
Channel Spacing	62.5 MHz, 125 MHz, 250 MHz, 500 MHz, 750 MHz
Modulation Scheme	QPSK Strong, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM
Capacity	Air-interface capacity: 3.2 Gbps Air-interface throughput: 4 Gbps Switching capacity: 8 Gbps
RF configuration	1+0, 2+0, 2 x (1+0), 1+1 HSB
Port Type	Auxiliary port: USB port, RSSI port, NMS port Service port: Two SFP ports (the COMBO port can be used as a CPRI port) One GE electrical port, one power over Ethernet (P&E) port
Service Type	• Native Ethernet services: E-Line, E-LAN • PW-based Ethernet services: E-Line, E-Aggr, E-LAN (VPLS) • CPRI services
NMS	NCE, Web LCT, SNMP, built-in web-based NMS
ETH OAM	IEEE 802.1ag, IEEE 802.3 ah, ITU-T Y.1731
Key Features	AMAC, Super Dual Band, ATPC, Bandwidth Notification, PLA, ERPS, QoS/HQoS, TWAP Light, Anti-theft
Clock Features	• Supported clock sources: microwave link clock, synchronous Ethernet clock • IEEE 1588v2 time synchronization • ITU-T G.8275.1 time synchronization
Power Supply Mode	P&E, generally used in conjunction with the RTN PI
Antenna	• Dish antenna: 0.2 m, 0.3 m, 0.6 m • Panel antenna: 0.3 m • Wide-beam antenna: 0.3 m x 0.077 m
Dimensions	265 mm x 265 mm x 65 mm
Typical Power Consumption	39W
Environment	• Temperature: –33°C to +55°C • Humidity: 5% to 100%

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