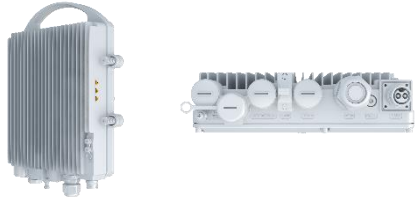# RTN 380AX
(DC+P&E option)

The RTN 380AX is a full-outdoor microwave transmission device operating at 71 GHz–76 GHz or 81 GHz–86 GHz frequency bands (E-band). The RTN 380AX is applicable to mobile communications networks or dedicated networks. It features large capacity, low inter-site interference, and rich spectrum resources. It provides large-capacity microwave backhaul or aggregation links and can be used as a supplement to metro optical networks.

Application Scenarios

1. Mobile backhaul

2. Fixed-network backhaul

3. Enterprise private line

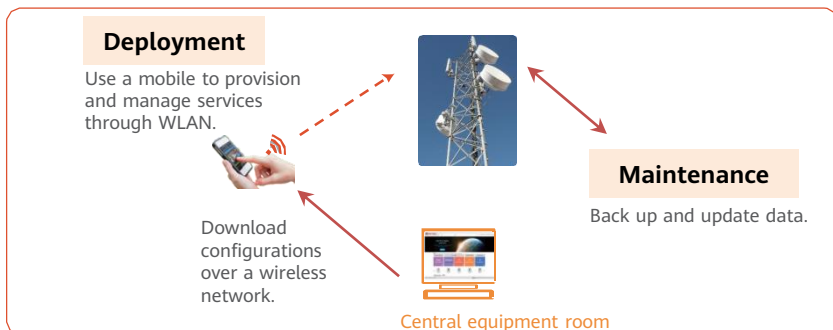4. Supplement to an optical network ring
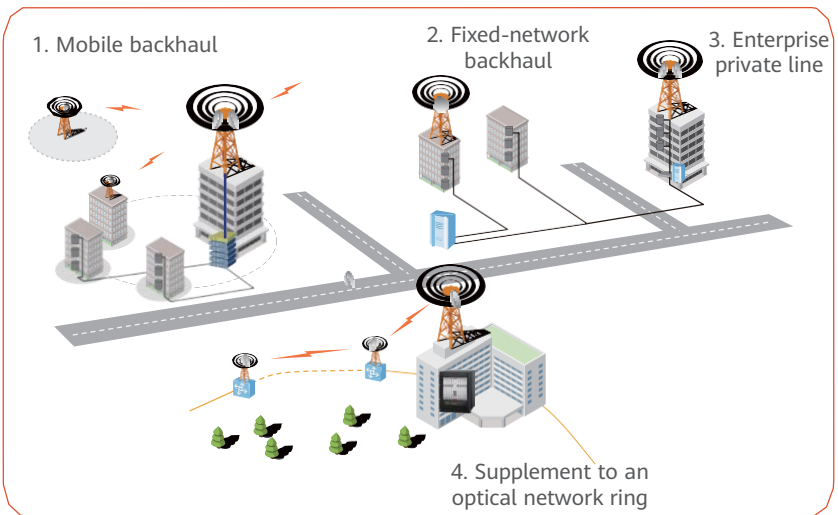
Ultra-High Bandwidth and High Spectral Efficiency

- **Large capacity:** provides microwave backhaul or aggregation links with 10 GE air-interface capacity. When XPIC is configured, link capacity per carrier can be increased to 20 Gbps, providing large-capacity microwave links for aggregation sites.
- **10GE ports:** provides 10GE SFP optical ports or DSFP port and supports 10GE to site.
- **Large channel bandwidth**: provides 62.5 MHz, 125 MHz, 250 MHz, 500 MHz, 750 MHz, 1000 MHz, 1500 MHz and 2000 MHz channel bandwidth.
- **Super Dual Band**: works as a slave device to bond with the RTN 900 to provide the Super Dual Band solution, or works as a master device to bond with the RTN 310/320/380AX/905 1E/905 2E/third-party devices to provide the Super Dual Band solution. Either of the solutions can provide high-bandwidth, long-distance, and highly-available backhaul links.
- **AMAC:** supports adaptive modulation and adaptive channel bandwidth to ensure the transmission of high-priority services**.**

Easy Deployment & Maintenance

- Features a small size, light weight, zero footprint installation, fast deployment, and easy maintenance.
- Supports connection to NEs at a site through WLAN, implementing contactless maintenance.
- Supports mobile 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.

Deployment

Use a mobile to provision and manage services through WLAN.

Maintenance

Back up and update data.

Download configurations over a wireless network.

Central equipment room

Specifications

Microwave Type		• IP microwave over Native Ethernet/PWE3 Ethernet • Microwave carrying 10GE eCPRI
Frequency Band		71 GHz–76 GHz /81 GHz–86 GHz
Channel Spacing		62.5 MHz, 125 MHz, 250 MHz, 500 MHz, 750 MHz, 1000 MHz, 1500 MHz, 2000 MHz
Modulation Scheme		BPSK, QPSK, 8PSK, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 1024QAM
Port Type	Auxiliary port	USB port, RSSI port, NMS port, XPIC port
	Service port	1*COMBO+1*10GE (o)+1*P&E
Capacity		• Maximum air-interface bandwidth: 10 Gbps • Maximum air-interface throughput: 10 Gbps • Switching capacity: 60 Gbps
RF Configuration		Supports 1+0, 2+0, 1+1 HSB, XPIC, and multi-direction configuration.
Service Type		• Native Ethernet services: E-Line, E-LAN • PW-based Ethernet services: E-Line, E-LAN (VPLS)
NMS		NCE, Web LCT, SNMP, built-in web-based NMS
Ethernet OAM		IEEE 802.1ag, IEEE 802.3 ah, ITU-T Y.1731
Key Features		AMAC, ATPC, ERPS, PLA, QoS/HQoS, Bandwidth Notification, TWAMP/TWAMP Light, Anti-theft, Super Dual Band, L3VPN, eCPRI
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		DC Power Supply and P&E Power Supply (Mutual Backup)
Antenna		• Dish antenna: 0.2 m, 0.3 m, 0.6 m • Panel antenna: 0.3 m x 0.3 m • Wide-beam antenna: 0.3 m x 0.077 m • IBT antenna: 0.6 m
Power Consumption		• Typical Power Consumption: 49 W • Maximum Value of Power Consumption: 79 W
Dimensions (H x W x D)		320 mm x 265 mm x 73.5 mm
Weight		5 kg
Environment		• Temperature: –33ºC to +55ºC • Humidity: 5% to 100% • Protection class: IP66

*This document is based on the product specifications of V100R020C10. For details, see the product documentation.