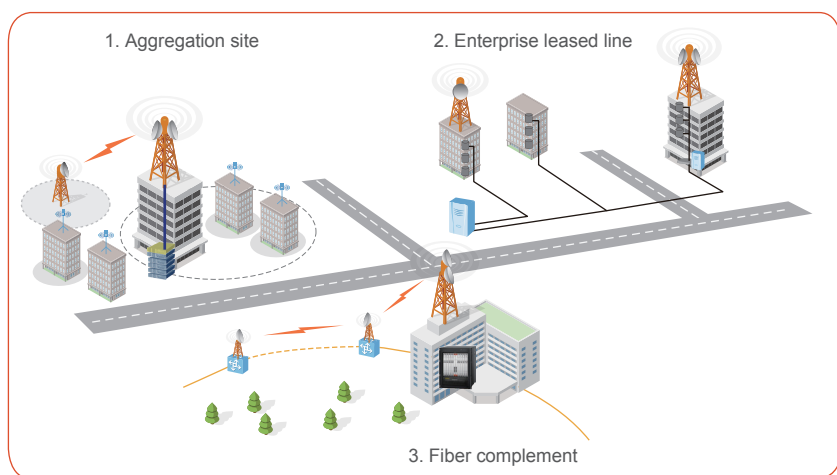


# RTN 380H



As E-band microwave equipment, the RTN 380H operates at the 71-76 GHz or 81-86 GHz frequency bands. The RTN 380H provides higher capacity, lower inter-site interference, and richer frequency spectrum resources than microwave equipment that operates at 6-42 GHz frequency bands. The RTN 380H is generally used to provide 10 Gbit/s microwave backhaul links for base stations or for aggregation sites on a mobile network or a private network. In addition, the RTN 380H can be used as a complement to a metro optical network.

## Network Applications



## Ultra-broadband and High Spectrum Efficiency

- Provides 10GE microwave links with 1+1 protection for aggregation sites.
- RTN 380H constructs an enhanced physical link aggregation (EPLA) group together with common-band RTN 900 to provide the Super Dual Band solution, which can provide 10 GE high-bandwidth, long-distance, and high-reliability backhaul links. Super Dual Band Relay can extend the E-band link transmission distance to three times the transmission of a single E-band hop.
- Supports 250 MHz, 500 MHz, 700 MHz, 1000 MHz, 1500 MHz, 2000 MHz channel bandwidths.
- Supports maximum modulation mode is 64 QAM.
- Supports adaptive modulation and adaptive channel spacing (AMAC) to ensure transmission of high-priority services.
- Supports Ethernet frame header compression to improve bandwidth utilization of Ethernet services.

## IP Functions

- E-Line and E-LAN
- Eight classes of QoS
- SDH-like OAM functions
- Synchronous Ethernet

## Easy Deployment and OAM

- Very wide frequency agility in the whole band.
- A USB key or app can be used to start, operate, and manage the RTN 380H.
- The U2000 can be used to implement E2E OAM, such as service provisioning and real-time performance monitoring.
- The RTN 380H has built in a web-based NMS.



## Specifications

<b>Microwave Type</b>	IP microwave over Native Ethernet
<b>Frequency Band</b>	71 GHz to 76 GHz, 81 GHz to 86 GHz
<b>Channel Spacing</b>	250 MHz, 500 MHz, 750 MHz, 1000 MHz, 1500 MHz, 2000 MHz
<b>Modulation Scheme</b>	BPSK, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
<b>Interface Type</b>	USB interface, RSSI interface, NMS interface
<b>Capacity</b>	<ul style="list-style-type: none"> <li>• Air capacity: 9.4 Gbit/s</li> <li>• Air-interface capacity: 10 Gbit/s</li> <li>• Switching capacity: 40 Gbit/s</li> </ul>
<b>Configuration</b>	1+0, 2+0, 1+1 HSB, Multi-direction
<b>Channel Configuration Mode</b>	• ACAP    • ACCP    • CCDP
<b>Service Port</b>	2 10GE optical ports, 1 GE optical port, and 1 power over Ethernet (P&E) port for transmitting Ethernet services
<b>Service Type</b>	E-Line service and E-LAN service
<b>Network Management</b>	U2000, Web LCT, WLAN, RTN 380H with a built-in web-based NMS, SNMPV3
<b>ETH OAM</b>	IEEE 802.1ag, IEEE 802.3 ah, ITU-T Y.1731
<b>Key Feature</b>	AMAC, Bandwidth Notification, Anti-theft, PLA, ERPS, TWAP Light, ATPC, QoS
<b>Clock Feature</b>	<ul style="list-style-type: none"> <li>• Clock sources: microwave link clock, synchronous Ethernet clock</li> <li>• IEEE 1588v2 time synchronization</li> <li>• ITU-T G.8275.1 time synchronization</li> </ul>
<b>Power Supply Mode</b>	Direct current (DC) power or PoE (generally, connected to an RTN B20 PI)
<b>Antenna Type</b>	<ul style="list-style-type: none"> <li>• Dish antennas with diameters of 0.2 m, 0.3 m, and 0.6 m</li> <li>• Flat antennas with diameters of 0.3 m</li> </ul>
<b>Dimensions</b>	320 mm x 265 mm x 95 mm
<b>Weight</b>	7.5 kg
<b>Typical Power Consumption</b>	79 W
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Temperature: -33°C to +55°C</li> <li>• Humidity: 5% to 100%</li> </ul>