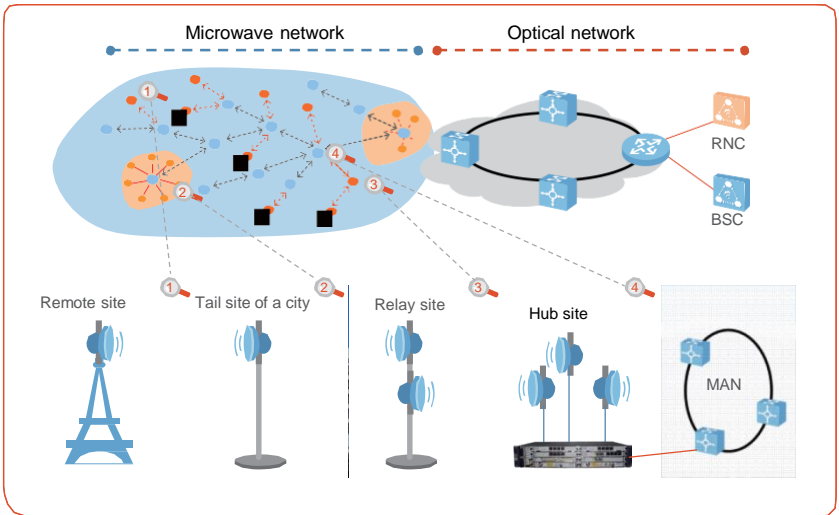


# RTN 320F



The RTN 320F is a full-outdoor dual-channel microwave device that provides 5G-oriented software expansion. It features split design, flexible deployment, and convenient capacity expansion. It provides 2 Gbps microwave backhaul links for mobile backhaul networks and supports zero footprint installation. It can be deployed at tail, aggregation, and relay sites.

## Application Scenarios



## Ultra-High Bandwidth and High Spectral Efficiency

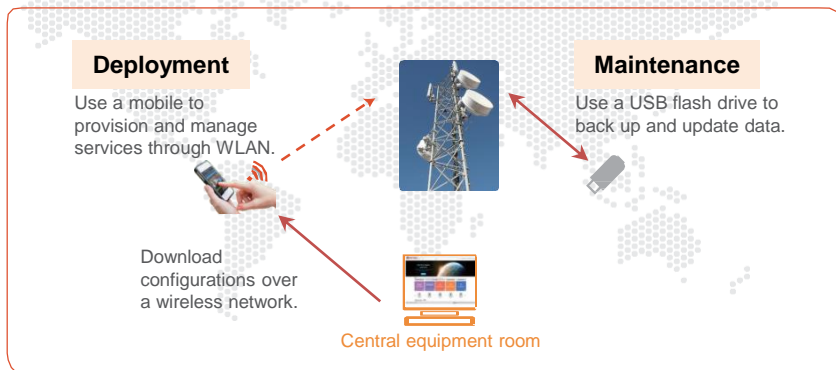
- **Large capacity:** provides 2.5 Gbps service capacity per link.
- **High bandwidth:**
  - ETSI: 7 MHz, 14 MHz, 28 MHz, 40 MHz, 56 MHz, 112 MHz
  - FCC: 30 MHz, 40 MHz, 50 MHz
- **High modulation scheme:** provides a modulation scheme of up to 8192QAM.
- **AM:** supports adaptive modulation (AM) to ensure the transmission of high-priority services.
- **Frame header compression:** supports use of the frame header compression function to significantly increase bandwidth utilization for Ethernet services carried over microwave links.
- **Flexible deployment:** supports collaboration between the OAU 2F and the dual-channel XMC-5D ODU or the single-channel RTN XMC-3/3H/2 ODU, as well as integrated installation (only for XMC-3/3H/5D ODUs) and split installation.
- **Scalability:** supports use of XPIC, CA (hardware ready), and MIMO (hardware ready) to increase the capacity of a single frequency. This facilitates network upgrade and improves spectrum efficiency.
- **Software-based capacity expansion:** When the OAU 2F works with the dual-channel ODU, 1+0 can be upgraded to 2+0/XPIC through software. This simplifies configuration and facilitates capacity expansion.

## Flexible Link Configuration and Full-Range Protection

- **Link configuration:** 1+0, 2+0, 2 x (1+0), XPIC
- **Link-level protection:** 1+1 HSB/SD/FD, PLA/EPLA
- **Service-level protection:** LAG protection
- **Network-level protection:** ERPS

## 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 commissioning and configuration during site deployment, making operations convenient.
- Supports use of the U2000 to implement E2E management, such as service deployment and real-time performance monitoring.



## Specifications

Microwave Type	IP microwave over Native Ethernet	
Frequency Band	6–42 GHz	
Channel Spacing	ETSI: 7 MHz, 14 MHz, 28 MHz, 40 MHz, 56 MHz, 112 MHz FCC: 30 MHz, 40 MHz, 50 MHz	
Modulation Scheme	QPSK strong–8192QAM	
Capacity	Air-interface capacity: 2 Gbps Air-interface throughput: 2.5 Gbps Switching capacity: 30 Gbps	
RF configuration	1+0, 2+0, multi-direction, 1+1 HSB/SD/FD, XPIC	
Port Type	Auxiliary port	USB port, NMS port, MIMO/CA cascade port (hardware ready)
	Service port	<ul style="list-style-type: none"> <li>• Two 10 GE SFP ports</li> <li>• Two FE/GE fixed electrical port</li> </ul>
	IF port	Two IF ports
	Power port	DC port
	Service Type	E-Line and E-LAN
NMS	U2000, Web LCT, SNMP	
ETH OAM	IEEE 802.1ag, IEEE 802.3 ah, ITU-T Y.1731	
Key Features	AM, XPIC, Bandwidth Notification, PLA/EPLA, ERPS, Frame Header Compression, ATPC, QoS/HQoS	
Clock Features	Supported clock sources: microwave link clock, synchronous Ethernet clock	
Power Supply Mode	DC power supply	
Antenna	Dish antenna: 0.2–3.7 m	
Dimensions	220 mm x 300 mm x 60 mm	
Weight	4.3 kg	
Environment	<ul style="list-style-type: none"> <li>• Temperature: –33°C to +55°C</li> <li>• Humidity: 5% to 100%</li> <li>• Protection class: IP66</li> </ul>	