

Overview

The Huawei OptiX RTN 950 is a new generation integrated microwave transmission system developed by Huawei, which can be installed easily and configured flexibly. It supports the convergence of up to 10 radio links, and supports multiple protection schemes. The OptiX RTN 950 provides a generic platform for TDM/Hybrid/Packet/Routing microwave transmission. The platform provides various service interfaces, large bandwidth, and easy scalability. It provides a seamless microwave transmission solution for mobile communication network or private networks.

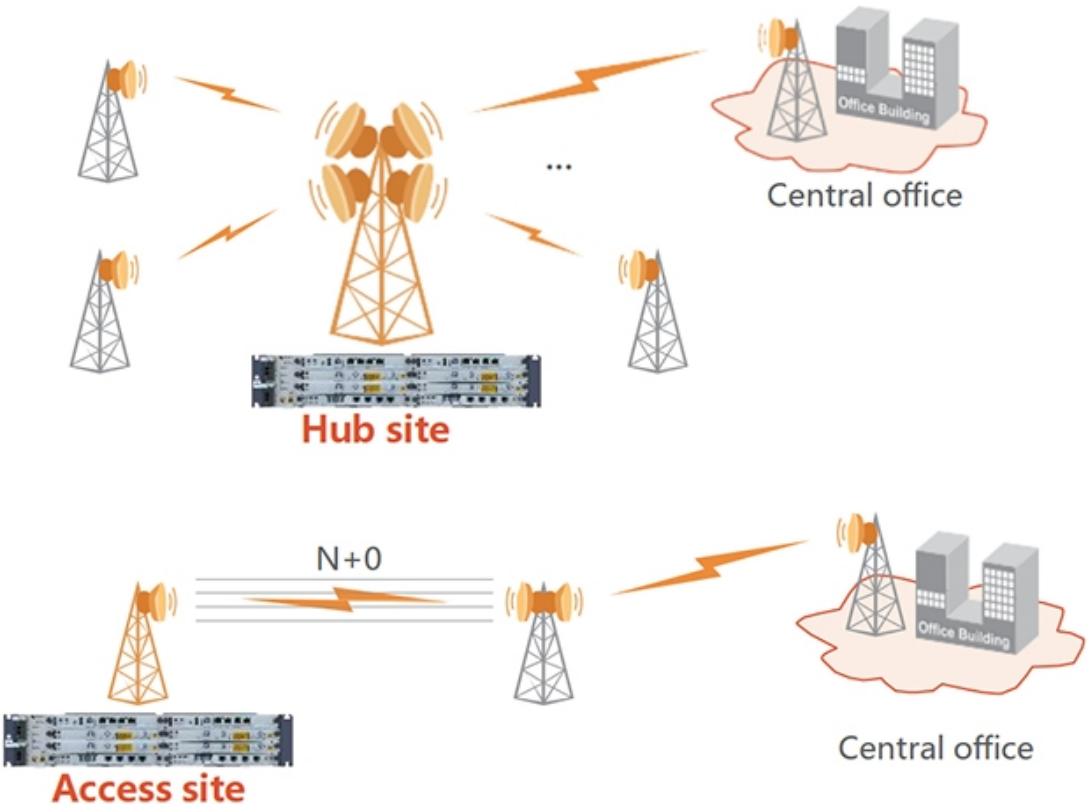
Quick Spec

Table 1 shows the quick spec.

Model	Huawei OptiX RTN 950
Network Layer	Access and Aggregation layer
Frequency	6 to 42 GHz
Channel Spacing	3.5/7/14/28/40/56/112 MHz
Modulation Mode	QPSK Strong, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 512QAM Light, 1024QAM, 1024QAM Light, 2048QAM, 4096QAM
Number of RF Directions	10
Air-Interface Capacity	1166 to 2500 Mbit/s per carrier (none-XPIC)

Product Details

Figure 1 shows the Application of Huawei OptiX RTN 950.



The OptiX RTN 950 is located at a hub site to aggregate multiple microwave links, or an access site for large-capacity service backhaul.

Huawei OptiX RTN 950 provides these highlights:

- Supports a full spectrum of 6-42 GHz, a channel spacing of 3.5-112 MHz, and a modulation scheme of up to 4096QAM.
- Unified platform for TDM, Hybrid, Packet, and IP Routing services; provides various ports (E1/SDH/FE/GE/2.5GE/10GE) and up to 120 Gbit/s switching capacity.
- Provides an air-interface throughput of up to 2.5 Gbit/s per carrier.
- Provides AES-256 encryption and anti-theft to ensure high security.
- Supports MIMO and CA for future huge-capacity requirements.
- Supports unique four-layer Ethernet frame header compression to provide a large throughput for IP services.
- Provides a leading 13-grade hitless adaptive modulation technology to ensure high availability.
- Up to 10-channel enhanced physical link aggregation (EPLA) and load sharing for high-level granularity traffic.
- Supports the Super Dual Band (SDB) solution for TCO-optimized capacity expansion. Ethernet synchronization and full IEEE 1588 V2 (TC/OC/BC) provide high quality eLTE backhaul networks.

Easy Deployment and O&M

- The OptiX RTN 950 can be easily installed in any standard indoor or outdoor cabinet.
- A plug-and-play USB key can be used to achieve fast startup and service provisioning.
- The portable Web LCT can be used for NE-layer management, and the unified platform NCE can be used for complete network management.

Compare to Similar Item

Table 2 shows the comparison.

Model	Huawei OptiX RTN 905	Huawei OptiX RTN 950
Network Layer	Access layer	Access and Aggregation layer
Frequency	6 to 42 GHz	6 to 42 GHz
Channel Spacing	3.5/7/14/28/40/56/112 MHz	3.5/7/14/28/40/56/112 MHz
Modulation Mode	QPSK Strong, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 512QAM Light, 1024QAM, 1024QAM Light, 2048QAM, 4096QAM	QPSK Strong, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 512QAM Light, 1024QAM, 1024QAM Light, 2048QAM, 4096QAM
Number of RF Directions	2	10
Air-Interface Capacity	1166 to 2500 Mbit/s per carrier (none-XPIC)	1166 to 2500 Mbit/s per carrier (none-XPIC)

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Specification

Huawei OptiX RTN 950 Specification	
Network Layer	Access and Aggregation layer
Frequency	6 to 42 GHz
Channel Spacing	3.5/7/14/28/40/56/112 MHz
Modulation Mode	QPSK Strong, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 512QAM Light, 1024QAM, 1024QAM Light, 2048QAM, 4096QAM
Number of RF Directions	10

Air-Interface Capacity	1166 to 2500 Mbit/s per carrier (none-XPIC)
Switching Capacity	· 120 Gbit/s (CSHUF) · 10 Gbit/s (CSHU/CSHUA)
TDM Crossing	32 × 32 VC-4
Interface Type	E1, STM-1 (e/o), FE (e/o), GE (e/o), 2.5GE (o) , 10GE (o)
Configuration Mode	· N+0 · N × (1+0) · 1+1 · N+1 · XPIC · 2 × 2 CA · 4 × 4 MIMO
Ethernet Function	· Ethernet II, IEEE 802.3, and IEEE 802.1q/p service format adding or deleting, and exchange VLAN tags (IEEE 802.1q/p) · ISIS, OSPF, BGP, RSVP, LDP · Flow control (IEEE 802.3x) · Link aggregation groups (IEEE 802.3ad LAG and L1 LAG) · RMON (IETF RFC 2819)
Service Type	· Native Ethernet services: E-Line service and E-LAN service · PW-carried Ethernet services: E-Line service, E-AGGR service, and E-LAN (VPLS) service (VPLS standing for virtual private LAN service) · L3VPN, L2VPN (VLL), CES, MCE
Key Feature	CES E1, IEEE 1588v2, H-QOS, PLA/EPLA, AES-256 encryption, Anti-theft, 1+1, N+1, XPIC, AM, TDM, PWE3/MPLS, SDB, L3VPN, CA, MIMO
IDU Dimensions	442 mm × 220 mm × 88 mm
Environment	Temperature: IDU -5°C to +60°C; ODU -33°C to +55°C Humidity: IDU 5% to 95%; ODU 5% to 100%
Power	-38.4 V to -72 V
Typical Power Consumption	245 W (4+0, ISM6) 265 W (4+0, ISM8)
Certificate	CE, RCM, FCC, IC, ETL, MCMC

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