

RTN 905



The RTN 905 is a new generation integrated microwave transmission system developed by Huawei, which can be installed easily and configured flexibly. It supports two radio links, and supports multiple protection schemes. The RTN 905 provides a generic platform for TDM/Hybrid/Packet/Route microwave transmission. The platform provide various service interfaces, large bandwidth, and easy scalability. The RTN 905 fully meets the needs of enterprise microwave transmission networks as well as smooth evolution towards the future.

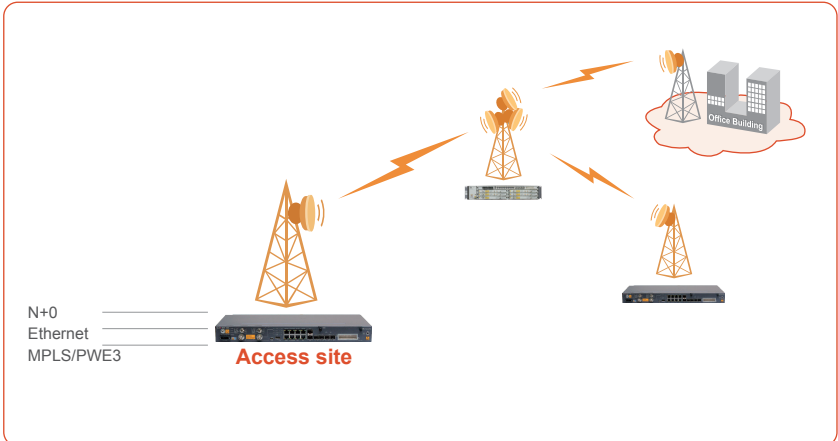
Architecture



The RTN 905 adopts an integrated chassis with 1 U height. It belongs to Huawei RTN 900 split IP microwave series that consist of an indoor unit (IDU) and an outdoor unit (ODU). The RTN 905 provides various types of interfaces to flexibly support multiple services and two radio directions.

Applications

The RTN 905 is located at an access site to access multi-service microwave links or for large-capacity service backhaul. It suits to be deployed in vertical industries with easy installation and configuration. It has been widely deployed in the ICT infrastructures in government, ISP, power, broadcasting and other vertical industries.



Highlights

- Supports a full spectrum of 6-42 GHz, a channel spacing of 3.5-56 MHz, and a modulation scheme of up to 2048QAM.
- Unified platform for TDM, Hybrid, and Packet services; provides various ports (E1/SDH/GE/GE).
- Provides an air-interface throughput of up to 1 Gbit/s per carrier.
- Provides AES-256 encryption and anti-theft to ensure high security.
- 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.
- Supports use of a web-based NMS. You can use it to manage a local or remote NE by entering the IP address of the NE on the address bar in a browser.

Easy Deployment and O&M

- The RTN 905 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 WLAN-based mobile LCT can be used for fast configuration, the portable Web LCT can be used for NE-layer management, and the unified platform iManager U2000 can be used for complete network management.

Specifications

Deployment Scenario	Access site
Frequency	6 to 38 GHz
Channel Spacing	3.5/7/14/28/40/50/56 MHz
Modulation Mode	QPSK Strong, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 512QAM Light, 1024QAM, 1024QAM Light, 2048QAM
Number of RF Directions	2 RF@1 U
Air-Interface Capacity	504 to 636 Mbit/s per carrier (none-XPIC)
Native Ethernet Maximum Throughput	<ul style="list-style-type: none"> • Native Ethernet: 636 (Mbit/s) • L2+L3 frame header compression (IPv6): 1000 (Mbit/s)
Switching Capacity	8 Gbit/s
TDM Cross-connect Capacity	8 × 8 VC-4
Interface Type	E1, STM-1(e/o), FE(e/o), GE(e/o)
RF Configuration Mode	<ul style="list-style-type: none"> • 2 × (1+0) • 2+0 • 1+1 • XPIC
Ethernet Function	<ul style="list-style-type: none"> • Ethernet II, IEEE 802.3, and IEEE 802.1q/p service format adding or deleting, and exchange VLAN tags (IEEE 802.1q/p) • Supports flow control (IEEE 802.3x) • Supports 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
Key Feature	Sync. Eth. USB startup, PLA, AES-256 encryption, Anti-theft, 1+1, XPIC, AM, TDM, L3VPN, MPLS, PWE3, 1588V2
IDU Weight	3.1 kg
IDU Dimensions	442 mm × 220 mm × 44 mm
Environment	<ul style="list-style-type: none"> • Temperature: IDU -5°C to +60°C; ODU -35°C to +55°C • Humidity: IDU 5% to 95%; ODU 5% to 100%
Power	-38.4V to -57.6V
Typical Power Consumption	92 W
Certificate	CE, RCM, FCC, IC, ETL, MCMC