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# OptiX RTN 950A-G

Data Sheet

OptiX RTN 950A-G (referred to as RTN 950A-G) is a new generation of integrated IP microwave transmission system, flexible configuration, easy installation, can support 12 microwave links, support a variety of protection methods, Using TDM/Hybrid/Packet/Routing four die integrated platform design. It provides a variety of business interface, has the characteristics of large bandwidth, easy to expand, suitable for all types of mobile network backhaul requirements.

## Highlights

### Simple Architecture and Flexible Application

- 2U high modular chassis structure, composed of indoor unit and outdoor unit.
- Provide 6 slots to flexibly support a variety of business boards, and can support up to 12 microwave directions.

### Large Capacity, Wide Application Scenarios

- Support 6-42 GHz band, 3.5-112 MHz channel interval, 8192QAM ultra-high modulation.
- Support multiple interfaces (E1/SDH/FE/GE/2.5GE/10GE) and up to 90 Gbps switching capacity.
- Single carrier supports up to 2.5Gbps airport throughput.

# Technical Specifications

| | |
|---|---|
| Network layer | Access and aggregation layers |
| Frequency rate | 6 ~ 42 GHz |
| Channel spacing | 3.5/7/14/28/40/56/112 MHz<br>14MHz_ACCP/28MHz_ACCP/56MHz_ACCP/112MHz_ACCP |
| Modulation mode | QPSK Strong, QPSK, 16QAM Strong, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 512QAM, 512QAM Light, 1024QAM, 1024QAM Light, 2048QAM, 4096QAM, 8192QAM |
| Rf direction | twelve |
| Air port capacity | Single carrier 1166 ~ 2500 Mbit/s (non-XPIC) |
| Switching capacity | 90 Gbit/s (with CSHOF), 10 Gbit/s (with CSHO) |
| TDM cross capacity | 32×32 VC-4 |
| Interface type | E1, T1, STM-1 (e/o), FE (e/o), GE (e/o), 2.5GE (o), 10GE (o) |
| Rf configuration mode | 1+0, N× (1+0), 1+1, N+1, XPIC, 2 × 2 CA, 4 ×4 MIMO |
| Power | Ethernet II, IEEE 802.3 and IEEE 802.1q/p field add/remove, and VLAN standard (IEEE 802.1q/p) exchange, ISIS, OSPF, BGP, RSVP, LDP, flow control support (IEEE 802.3x), Link aggregation group support (IEEE 802.3ad LAG and L1 LAG), RMON (IETF RFC 2819) |
| Service type | Native ETH business: E-Line business and E-LAN business<br>Native ETH services based on PW: E-Line service, Ethernet aggregation service, E-LAN Private network service (VPLS, which stands for Virtual Private network service) L3VPN, L2VPN (VLL), CES, MCE |
| Key Features | CES E1, IEEE 1588v2, USB boot, H-QoS, PLA/EPLA/EPLA+, AES-256 encryption, device anti-theft, 1+1, N+1, XPIC, AM, TDM, PWE3/MPLS, SDB, L3VPN, CA, MIMO |
| IDU weight | 5.4 kg (1+0), 6.2 kg (1+1) |
| IDU Specifications | 442 mm × 220 mm × 88 mm |
| Electrical source | -38.4V to -57.6V |
| Typical power consumption (IDU+ODU) | 125 W (2+0, ISM6)<br>228 W (4+0, ISM6) |

* The pictures, technical parameters and instructions displayed in the product promotion are for reference only, and the specific products are subject to the actual delivery.

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