REVOTIK 8 PORT 10G GEPON OLT

PRODUCT OVERVIEW

RV918B
High-Density Rack-Mounted 10GEPON OLT

RV918B complies with IEEE802.3av and P.R.C intercommunication standard (YD/T 1475-2006) and supports CTC3.0. It can automatically discover and is compatible with ONUs of different manufacturers. It is also fully compatible with 1G EPON ONU. It can be used for establishing efficient 10GEPON solution.

RV918B supports the downlink 10Gbps/ uplink10Gbps, 1.25Gbps PON transmission rate, efficient bandwidth usage and Ethernet services, helping carriers to provide reliable services to their users.

Its coupling ratio ups to 1:128, and its support of different hybrid ONU networks minimizes the carrier's investment.

With the edge-cutting technologies, RV918B is strong in functions. A few of its functions such as QoS guarantee, SLA and DBA can be easily listed out.

PRODUCT CHARACTERISTICS

- RV918B abides by IEEE802.3av, PRC Community Industry Standard (YD/T1475-2006) and EPON technological requirement CTC3.0.
- System capacity: RV918B supports 8 10GEPON ports.
- Uplink interface: RV918B supports 4 GE optical ports, 4 GE Base-T ports, 4 10GE SFP+ ports.
- Dimensions (W×D×H): 1U, 300mm; the device occupies a small space.
- Trunk optical fibre protection: RV918B supports link automatic protection switching in case of optical fibre malfunctions;
- Power supply characteristics: RV918B supports dual AC, dual DC and AC/DC dual power supply. Its power supply adopts the modularized design and supports hot swap and EMC3 standard. Compared with the similar products, RV918B can be better adaptable to the environment.

TECHNICAL PARAMETERS

Model	RV918B
System Capacity	Maximum coupling ratio, 1:128 256G backplane bandwidth MAC table capacity: 32K
Interface	PON: 8 10GEPON XFP Uplink interface: GE 8 (4 SFP, 4 TX), 10GE 4 SFP+
PON Interface	Asymmetric Mode: Optical module transmission wavelength: downlink 1577nm/1490nm, uplink 1310nm; Rate: downlink 10G, uplink 1.25G; Average emitting power: +2dbm ~ +5dbm@10Gbps; +2 ~ +7dbm @1.25Gbps Light reception sensitivity: -30dBm; Symmetric Mode: Optical module transmission wavelength: downlink 1577nm/1490nm, uplink 1270/1310nm; Rate: downlink 10G, uplink 10G; Average emitting power: +2dbm ~ +5dbm @10Gbps; +2 ~ +7dbm @10Gbps; Light reception sensitivity: -30dBm
Standard	IEEE802.3av IEEE 802.1D, Spanning Tree IEEE 802.1Q, VLAN IEEE 802.1w, RSTP IEEE 802.3ad LACP Ethernet – II YD/T 1771-2008
QoS	Back-pressure flow control (half duplex) IEEE 802.3x flow control (full duplex) IEEE 802.1p, CoS WR, SP and FIFO Limiting the uplink/downlink rate based on each ONU Supporting DBA and SLA
VLAN	Port-based VLAN QinQ, flexible QinQ
Multicast	IGMP IGMP Snooping
Reliability	Unidirectional Link Detection (UDLD) Hot swap of the optical module Optical path protection of EPON Abnormal luminescence overhaul of ONU, such as long luminescence Detection
Network Security	Limiting the maximum number of users on each port Port isolation Packet storm control Flow-based ACL access control function Transmission data encryption on the PON interface
Configuration Management	Multiple management modes such as CLI, Web, SNMP and TELNET Conducting software upgrade through TFTP Command prompt in English or in Chinese Debug output
Physical	Dimensions (W × D × H) : 442.5 x300 x 44 mm
Characteristics	Installation: standard 19-inch rack-mounted Weight: ＜6kg
Environment Requirements	Working condition: 0℃-45℃; 10%-85% non-condensing Storage condition: -40℃-80℃; 5%-95% non-condensing
Power Supply	Input voltage: AC100-240V, DC -36~-72V Dual power supply, DC/AC power supply and power module hot swap Over-current voltage protection