

REVOTIK RVOX101

APPLICATIONS

Revotik 1G xPON (RVOX101) is a Gigabit single port pon-ONU product launched by Revo Infratech USA Ltd. The RVOX101 delivers a universal PON MAC and a high-performance SerDes to support both. It supports automatic identification under GPON network and EPON network, and automatic switching of PON mode function.

ADVANCED HIGH BANDWIDTH GPON / EPON TECHNOLOGY

GPON MODE: The RVOX101 is fully ITU-T G.984 compliant 2.488 Gbps downstream and 1.244 Gbps upstream GPON systems.

EPON MODE: The RVOX101 is fully IEEE 802.3 EPON MAC compliant 1.25 Gbps downstream and 1.25 Gbps upstream EPON systems.

QUALITY OF SERVICE

The RVOX101 supports extensive QoS features, Traffic classification based on IEEE802.1P/O priority definition, physical Port. IP DSCP field ACL definition SVLAN based priority 8 priority queues per port supports per port Ingress Bandwidth Control and Egress Bandwidth Control, ensures that tiered service offerings based on different bit-rates and QoS can be readily supported.

SECURITY

The RVOX101 comes with the latest security features, including access control list (ACL), Supports MAC, IP.TCP/UDP, ICMP, IGMP, IPv6 Format, Supports source and destination MAC address filtering.

FLEXIBLE MANAGEMENT

The RVOX101 is managed from the GPON-OLT via OMCI or EPON-OLT via OAM, profile-based provisioning, event and fault management and performance monitoring for the ONU, or with a 3rd party NMS via northbound interface.



SPECIFICATIONS

GPON UPLINK INTERFACE	
Standard	Fully ITU-T G.984.x compliant
Line rate	Downstream: 2.488 Gbps; Upstream: 1.244 Gbps
Connector	SC/UPC, single-mode-fiber
Link Budget	Class B+ ITU G.984.2 Amd1
Wavelength	Transmit: 1310nm; Receive: 1490nm
Tx Output power	+0.5 to +5.0 dBm launch power
Rx Sensitivity	-28dBm
Rx Overload	-8 dBm
Distance	up to 20 km (depending on split ratio & fiber loss)
Split ratio	General: 1: 64; maximum: 1: 128
TC layer	AES (128-bit key), US and DS FEC
DBA	Dynamic Bandwidth Report upstream , DBRu
GEM port	Supports 32 GEM
T-CONT	Supports 8 T-CONT
Activation	Activation with automatic discovered SN and password in conformance with ITU-T G.984.3

EPON UPLINK INTERFACE	
Standard	Fully IEEE802.3 EPON MAC compliant
Line rate	Downstream: 1.25 Gbps; Upstream: 1.25 Gbps
Connector	SC/UPC, single-mode-fiber
Link Budget	Class B+ ITU G.984.2 Amd1
Wavelength	Transmit: 1310nm; Receive: 1490nm
Tx Output power	-1 to +4.0 dBm launch power
Rx Sensitivity	-28dBm
Rx Overload	-8dBm
Distance	up to 20 km (depending on split ratio & fiber loss)
Split ratio	General: 1: 32; maximum: 1: 64
US scheduling	Per Queue rate control setting (CIR/PIR)

ETHERNET INTERFACE	
Type	one 10/100/1000 Base-T interface
Connector	RJ-45 connectors
Link	auto-negotiation

POWER	
AC Adapter	12V 0.5A
DC Connector	2-pin Power adaptor input
Power	less than 5W, Dying Gasp support

L2 FEATURES	
Bridging	802.1d bridging
VLAN	Supports IEEE 802.1Q VLAN Supports IEEE 802.1ad Stacking VLAN
QoS	Traffic classification based on IEEE802.1P/Q priority definition, physical Port. IP DSCP field ACL definition, SVLAN based priority 8 priority queues per port Supports per port Ingress Bandwidth Control and Egress Bandwidth Control Per queue flow control Min-Max Scheduling

PHYSICAL	
Temperature	0 °C to 40 °C
Humidity (RH)	5% to 95% relative humidity
Mounting	Desktop mounting & wall mounting
LED Indicators	PWR, PON, LAN, LOS
Dimensions	80mm x 80mm x 28mm (HxWxD)

SECURE MANAGEMENT	
Local	Web based GUI
Remote	G.984.4 OMCI ME MIBs, Telnet
Image upgrade	Supports firmware upgrade via remote serve
Image Restore	Holds a working image & alternative image
Authorization	Secure ONT registration - ONT serial number, PLOAM password

The information contained herein is for informational purposes only.