G400i GPON ROUTER

The G400i is a next-generation Passive Optical Network (GPON) integrated access device (IAD). It is a cost-effective solution for point-to-multipoint; fiber-to-the-premises network architecture in which passive optical splitters are used to allow a single optical fiber to serve multiple premises. Compliant with the ITU-T G.984 GPON standards, the device supports maximum downstream rates up to 2.5Gbps and upstream rates up to 1.25Gbps.

**BENEFITS**

**GPON:**
- ITU-T G.984 GPON compliant
- Supports bandwidth maximum downstream rates up to 2.5Gbps and upstream rates up to 1.25Gbps
- Supports transmission distance up to 20km
- Dual wavelength: Tx at 1310nm and Rx at 1490nm

**Management:**
- Supports OMCI (ONT Management and Control Interface) remote management

**FEATURES**

**Firewall:**
- SOHO Firewall Security with DoS Prevention and SPI

**QoS:**
- Quality of Service for traffic prioritization and bandwidth management
- Supports IPTV applications
- Easy Sign-On (EZSO)

**APPLICATIONS**

Ideal for:
- Home, SOHO and Office users

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With this technology, users can enjoy high-speed GPON services and bandwidth-consuming multimedia applications such as interactive gaming, video streaming and real-time audio much easier and faster than ever before. The G400i supports the ONT Management and Control Interface (OMCI), which ensures that the GPON ONT router is easy to configure, activate and manage remotely from a Optical Line Terminal (OLT). By reducing call-outs, deployment and support costs of the ONT device are greatly reduced.

OMCI REMOTE MANAGEMENT

In order to meet the ITU-T G.984.4 requirements for OMCI (ONT Management Control Interface), and defined compatibility and message transfer between OLT and ONT, and Management Information Base (MIB) physical device management, the G4020i uses OpenCon’s OMCI management. This tool is field-proven and interoperable with other GPON Systems with OMCI capabilities for both OLT and ONT equipment. OpenCon’s OMCI management has been thoroughly tested to consistently meet ITU-T G.984.4 and is approved by the Full Service Access Network (FSAN) Group.
SPECIFICATIONS

GPON Compliance
- Compliant with ITU-T G.984 GPON standards
- G.984.1 General characteristics
- G.984.2 Physical Media Dependent (PMD) layer specifications
- G.984.3 Transmission convergence layer specifications
- G.984.4 Management and control interface

Network Protocols and Features
- NAT, static routing and RIP-1 / 2
- Universal Plug and Play (UPnP) compliant
- Dynamic Domain Name System (DDNS)
- Virtual Server and DMZ
- SNTP, DNS relay and IGMP proxy

Firewall
- Built-in NAT Firewall
- Stateful Packet Inspection (SPI)
- DoS attack prevention including IP Spoofing, Land Attack, Smurf Attack, Ping of Death, TCP SYN Flooding, etc.
- Packet Filtering - port, source IP address, destination IP address, MAC address
- URL Content Filtering - string or domain name detection in URL string

Quality of Service Control
- Supports the DiffServ approach
- Traffic prioritization and bandwidth management based-on IP protocol, port number and address

Management
- Quick Installation Wizard and Auto-scan for GPON settings
- Web-based GUI for remote and local management
- Firmware upgrades and configuration data upload and download via web-based GUI
- Embedded Telnet server for remote and local management
- SNMP v3, MIB-I and MIB-II support
- OMCI supports remote management

IPTV Applications
- IGMP proxy and snooping for video service
- Virtual LAN (VLAN)
- Quality of Service (QoS)

Hardware Specifications
Physical Interface
- WAN: SC/APC GPON port
- LAN: 4 x10/100Mb Ethernet port with auto-crossover (MDI/MDI-X) Switch
- Factory default reset button
- Power jack
- Power switch

Physical Specifications
- Dimensions: 5.53” x 3.56” x 1.38” (140.5mm x 90.5mm x 35mm)
- Power Requirements: Input: 12V DC, 1 A

Operating Environment
- Operating temperature: 0 to 40 °C
- Storage temperature: -20 to 70 °C
- Humidity: 20 to 95% non-condensing

*Notes:
Specifications on this datasheet are subject to change without prior notice.
IPTV application may require subscription to IPTV services from a Telco / ISP

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