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Product Brief

AONT-1530



GPON Gateway ONT (4GE) + PoE

Feature Summary

- Single Family unit
- Indoor wall or table mount
- Four 10/100/1000 Base-T Ethernet RJ-45 Ports
- 10/100/1000Mbps auto-negotiation
- Half-duplex & full-duplex operation
- MDI/MDIX auto detection
- Support IEEE 802.3at PSE for each Ethernet port
- 802.1p tag based QOS both ingress/egress on each port
- 802.1ad Double tagging support
- 802.1d, 802.1q based bridging
- IGMP snooping and filtering with 256
 Multicast groups
- Supports OMCI, CLI configurations
- Supports firmware upgrade via remote server
- Supports dual software image. Holds a working image & alternative image for image rollback
- Powered through Adapter with the Following specification Input: 100-240VAC/1.5A 50/60Hz Output: 54.0V/1.5A

Applications

The AONT-1530 has been optimized for residential homes to provide high speed internet services.

Advanced GPON technology

The AONT-1530 is fully FSAN (ITU-T G.984) compliant with a 1.244 Gbps upstream and 2.488 Gbps downstream, Class B+ GPON system. **Quality of Service**

The AONT-1530 supports extensive QoS features, including 802.3x flow control, DSCP to 802.1p mapping, and downstream traffic scheduling for premium or time sensitive content. Intelligent and robust buffer and queue management for Ethernet traffic, with individually prioritized queues, ensures that tiered service offerings based on different bit-rates and QoS can be supported.

Gateway

The AONT-1530 contains both wire-speed L2 switch and L3 routing gateway with port forwarding, NAT and NAPT address translation, built-in PPPoE support for HSI, and an integrated stateful packet inspection firewall with a configurable access control list (ACL) and application-level gateway (ALG). Support for VPN (L2TP, PPTP and IPSec) pass through is also provided. Included as part of the gateway function are DHCP client, DHCP server, and DNS server for IPv4 and IPv6.

Security

The AONT-1530 supports AES-128 bit decryption with key generation and switching in the downstream.

Flexible Management

The AONT-1534 is managed from the AOLT-4000 and AOLT-4200 OLT via OMCI. The AOLT in turn is managed with either Alphion Element Management System (AEMS) that provides configuration, profile based provisioning, event and fault management and performance monitoring for the AONT, or with a 3rd party NMS via northbound interface.

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SPECIFICATIONS

GPON uplink interface

| Interface | 1X SC/APC Connector, Single mode fiber Activation with automatically discovered SN and password |
|-----------------|--|
| Standard | Compliant with ITU G.984.2 ClassB+ Compliant with ITU G.984.5 |
| Transmitter | Support 1.244Gbps upstream bandwidth DFB transmitter working in 1310nm, Mean launch power in 0.5~5dBm range Turn on/off time at burst mode < 12.8ns |
| Receiver | Support 2.488.Gbps downstream bandwidth APD receiver working in 1490nm, with -8 to 28dBm working range Isolation to 1310nm > 47dB Isolation to (1440~1450nm), (1530~1540nm) > 25dB Isolation to (1400~1440nm), (1540~1625nm) > 40dB |
| TC Layer | Support type 1~5 TCONT defined in G.984.3 Support flexible mapping between TCONT & GEMPORT. Supports FEC in the upstream and Downstream direction |
| GEM port | up to 256 |
| T-CONT | up to 32 |
| I-CONT | up to 32 |
| Ethernet inter | face |
| GE port | Four RJ-45 connectors |
| Standard | Compliant with IEEE 802.3,802.3u, 801.3ab |
| | Compliant with IEEE 802.3az, Green Ethernet |
| Link | 10/100/1000Base-T with full duplex and half |
| | duplex auto-negotiation and MDI/MDIX auto- sensing |
| Power | |
| AC adapter | Input: 100 - 240VAC, 50Hz/60Hz; Output: 54VDC, 1.5A |
| Control | Power ON/OFF switch |
| Connector | A standard barrel connector |
| PSE | Support IEEE 802.3at PSE standards |
| | Support CISCO PD detection Support Max 30W output for each port |
| Management | |
| Local | Web based GUI |
| Remote | ITU-T G.988 OMCI, TR-069, Telnet |
| Image | Supports firmware upgrade via remote server |
| Restore Default | Holds a working image & alternative image for image rollback 1. Press hidden button for 10 secs |
| | Use GUI Web, CLI, Telnet method |

Layer 2 Bridging features

| MAC | Support the Ethernet data frame filtering based on port, SA/DA |
|---------------|--|
| | Support 2000byte MTU, Compliant with IEEE 802.3as |
| VLAN | Supports 256 MAC addresses |
| | Support 802.1p, 802.1d, 802.1q based QoS |
| | Support forwarding traffic class into GEMPORT & |
| | TCONT. |
| | Support ingress/egress 802.1p tag based QoS on each |
| | Port. Support double tagging, compliant with IEEE |
| | 802.1ad |
| | |
| Gateway featu | res for IPv4 and IPv6 |
| | PPPOE DHCP client or static IP NAT/NAPT port |

| WAN | PPPOE, DHCP client or static IP, NAT/NAPT, port |
|---------|---|
| | forwarding, port triggering |
| LAN | DHCP server and relay agent, DHCP option 60, |
| | DNS relay |
| Routing | RIP v1/v2 and static IP routing |

IPv6 support

| Mode Dual stack lite |
|----------------------|
|----------------------|

Firewall

| Туре | Stateful packet inspection |
|----------------|---|
| Filtering | DoS attack prevention, IP source/destination |
| | filtering, TCP/UDP port source/destination filtering, |
| | MAC source filtering |
| ALGs | FTP, SIP, H.323, RSTP |
| VPN | PPTP, L2TP, IPSec pass-through |
| Access control | DMZ, Parental Controls |

6rd

Physical

| Temperature | 0 to 50 °C |
|-------------|-------------------------------|
| Humidity | 10 to 95% non-condensing |
| Dimension | 209mm(W) x 130mm(D) x 40mm(H) |
| Weight | 0.4kg |
| Mounting | Wall or Desktop |
| LEDs | Power, LOS, GPON, LAN1-4 |

Regulatory Compliance

| Certification | CE compliant |
|---------------|--|
| EMC | EN55022, CISPR-22 Class B |
| Safety | EN60950/UL60950 |
| Laser safety | IEC-60825-1 Class 1 laser safety per G.664 |
| Transient | EN/IEC61000-4-4(2001) level 2 |
| Immunity | Radiated RF: EN/IEC61000-4-3(2002) level 2 |
| | Conducted RF: EN/IEC61000-4-6(2001) level 2 |
| Surge | EN/IEC61000-4-5(2001) 0.5 KV (line) and 1.5 KV |
| | (earth) |
| ESD | EN/IEC61000-4-2(2001) contact level 2, air |
| | discharge level 3 |
| Hazardous | RoHS6, WEEE |
| | |

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