

## 10 Gbit/s XG(S)PON ONT

### AG3242A Series

- Plug and play
- Integrated TR069 remote configuration and maintenance
- Supports QinQ VLAN
- DHCP server/relay
- IGMP/MLD snooping multicast
- Supports 802.11ac
- Supports NAT
- Supports IPv4 and IPv6 dual stack



Ascent's AG3242A is an indoor optical network terminal (ONT) for 10G PON FTTH solution. The ultra-broadband access is provided for users, by using the XG-PON/XGS-PON and WiFi technologies. The maximum downstream rate reach to 10 Gbps, maximum upstream rate reach to 2.5 Gbps / 10 Gbps. Highly reliable and easy to maintain. The high-performance service forwarding capabilities with guaranteed QoS ensure excellent experience with VoIP, Internet and HD video services.

## Key Features

- Plug and play, integrated auto detecting, auto configuration, and auto firmware upgrade technology
- Integrated TR069 remote configuration and maintenance function
- Support rich QinQ VLAN, DHCP Server/Relay and IGMP/MLD snooping multicast feature
- Fully compatibility with OLT based on Broadcom/PMC/Cortina chipset
- Support 802.11ac WiFi(4T4R) function
- Support 802.11n WiFi(4T4R) function
- Support NAT, Firewall function
- Support IPv4 and IPv6 dual stack
- Integrated line testing compliant with GR-909 on POTS
- The WAN port supports bridge, router and bridge/router mixed mode

## Specifications

| Item                  | Description                                                       |
|-----------------------|-------------------------------------------------------------------|
| Interfaces            | 2*POTS + 4*GE + 2.4G & 5G WiFi + 1*USB3.0                         |
| Indicators            | Power + PON + LOS + Internet + 4*LAN + 2*Phone + WiFi + WPS + USB |
| Power Adapter Input   | 100 to 240V AC, 50/60 Hz                                          |
| Power Adapter Output  | 12 V, 3 A                                                         |
| Buttons               | Power + Reset + WPS                                               |
| Dimensions (W×H×D)    | 242 mm × 162 mm × 30 mm (without base)                            |
| Operating Temperature | -10 °C to +55 °C                                                  |
| Operating Humidity    | 5 % RH to 95 % RH (non-condensing)                                |

### Features

|                      |                                                                                                                                                                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PON Interface</b> | Class N1/N2<br>SC/APC<br>Receiver sensitivity: -28 dBm<br>Wavelength: DS: 1575 nm to 1580 nm, US: 1260 nm to 1280 nm<br>40 TCONT, 256 GEM ports<br>DBA<br>AES128 encryption/decryption<br>Dying-Gasp<br>Upstream and downstream FEC<br>SN/Password/SN + Password authentication<br>Rate: DS: 10 Gbps, US: 2.5 Gbps / 10 Gbps |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                           |                                                                                                                                                                                                                                                                                                                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>WLAN Interface</b>     | IEEE 802.11 b/g/n (2.4G)<br>IEEE 802.11 a/n/ac (5G)<br>MU-MIMO: 2.4GHz:4×4; 5GHz:4×4<br>64/128-bits WEP; AES; WPA/WPA2<br>Antenna gain:3dBi<br>WMM (Wi-Fi Multi Media)<br>4 SSIDs<br>Throughput:5GHz: 1733Mbps;2.4GHz: 800Mbps                                                                                         |
| <b>Ethernet Interface</b> | Ethernet port-based VLAN tags and tag removal<br>1:1 VLAN, N:1 VLAN, or VLAN transparent transmission<br>QinQ VLAN<br>Limit on the number of learned MAC addresses<br>MAC address learning                                                                                                                             |
| <b>POTS Interface</b>     | SIP protocol<br>2 POTS<br>Maximum REN:4<br>G.711A/u, G.729a/b and G.722 codec<br>FoIP including T.30, T.38 and G.711 fax mode<br>Support tones generating<br>Echo cancel, VAD, comfort noise<br>DTMF: Inband, RFC2833, SIP Info<br>Supplementary services: Call waiting, 3 Party Conference, Forwarding services, etc. |
| <b>USB Interface</b>      | USB 3.0<br>FTP-based network storage<br>File/Print sharing based on SAMBA<br>DLNA DMS/UPnP AV (media server)                                                                                                                                                                                                           |
| <b>Layer-3 Features</b>   | PPPoE/ Static IP address /DHCP<br>NAT/NAPT<br>Port forwarding<br>ALG, UPnP<br>DDNS/DNS server/DNS Client<br>IPv6/IPv4 dual stack, DS-Lite<br>Static IP routes/ Default IP routes<br>VPN (IPSec, PPTP, L2TP) transparent                                                                                                |
| <b>Security</b>           | Firewall<br>ACL<br>MAC filter<br>URL filter                                                                                                                                                                                                                                                                            |
| <b>Multicast</b>          | IGMP v2/v3 snooping<br>IGMP v2 proxy<br>IGMP v3 proxy<br>MLD v1/v2 snooping                                                                                                                                                                                                                                            |
| <b>QoS</b>                | Ethernet port rate limitation<br>802.1p Priority                                                                                                                                                                                                                                                                       |

**O&M**

SP/WRR/SP+WRR  
OMCI/Web  
TR069  
Telnet

## Ordering Information

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**Product Name**

AG3242A

**Product Description**

10 Gbit/s XG(S)PON ONT. 2\*POTS + 4\*GE + 2.4G & 5G WiFi + 1\*USB3.0.

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