ALCATEL-LUCENT
7342 ISAM ONT I-010G-U

The Alcatel-Lucent 7342 Intelligent Service Access Manager (ISAM) Indoor Optical Network Terminal (ONT) I-010G-U provides 1 Gigabit Ethernet (GigE) interface. It terminates a full service access network (FSAN)-compliant gigabit passive optical network (GPON) fiber interface and is designed to connect individual users to the network for ultra-broadband services with gigabit speed. The I-010G-U paves the way to deliver premium triple play services in a fiber to the home (FTTH) environment.

FEATURES

- Supports 1 GigE interfaces
- Wire speed data transfer for all packet sizes
- Per-subscriber, per-service bandwidth control
- Remotely managed by the Alcatel-Lucent 5520 AMS Access Management System (AMS)
- IP video with multi-stage IGMPv2 or IGMPv3 for channel change
- Supports received signal strength indicator (RSSI) for lean operations and remote troubleshooting
- Wall and desktop mounting

BENEFITS

- Eco-sustainability in line with "green" tendencies: low power consumption
- Internet Group Management Protocol (IGMP) snooping for monitoring the member joining and leaving activities at the Ethernet port and then selectively delivers the multicast streams
- Power supply with dying gasp functionality
- Advanced dynamic bandwidth management allows prioritization per service and user with the ability to burst up to the full line rate. This guarantees very high quality of service (QoS) and future security, and makes optimal use of electronics, fiber optics and distribution facilities.

TECHNICAL SPECIFICATIONS

Physical

- Length: 120 mm (4.7 in.)
- Width: 90 mm (3.5 in.)
- Depth: 28 mm (1.1 in.)
- Wall or desk mount

Operating environment

- Temperature: 0°C to 50°C (32°F to 122°F)
- Humidity: 5% to 95% relative humidity

Power requirement

- Local powering with 12 V input (feed uses external AC/DC adapter)
- Dying gasp support
- Maximum power 4 W

Regulatory compliance

- RoHS 6
- CE Mark

GPON interface

- 2.488 Gb/s line rate downstream, 1.244 Gb/s line rate upstream
- Standard connector/angled physical contact (SC/APC) optical connector
- G.984.2-compliant with Class B+ optical line terminal (OLT)
- 1490 nm wavelength downstream, 1310 nm wavelength upstream
- G.984.3-compliant dynamic bandwidth reporting
- G.984.3-compliant Advanced Encryption System (AES) in downstream (DS)
- G.984.3-compliant Forward Error Correction (FEC)
- G.988 Appendix 1 and 2
- Remote software image download, activation and reboot

Ethernet

- IEEE 802.3-compliant 10/100/1000 Base-T ports
- Media Dependant Interface/Media Dependant Interface Crossover (MDI/MDIX) automatic sensing
- Data transfer at wire speed for all packet sizes
- Broadcast/Multicast rate limiting
- Virtual LAN (VLAN) tagging/detagging
- VLAN stacking and VLAN translation
- Class of Service (CoS) based on 802.1p, 802.1q, Type of Service/ Differentiated Services Code Point (ToS/DSCP)
- IP ToS/DSCP to 802.1p mapping

Voice

- External integrated access device (IAD) is needed to deliver voice service on FTTH

IP video service

- Supports IGMPv2 and IGMPv3 snooping
- G.984.3-compliant multicast
- Uses a single GEM Port ID for all video traffic (as mandated by G.984.3)

LED

- Power
- Alarm
- Connection
- Ethernet

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