Alcatel-Lucent 7368 ISAM ONT G-040P-Q

Indoor ONT

The Alcatel-Lucent 7368 Intelligent Services Access Manager (ISAM) G-040P-Q indoor Optical Network Terminal (ONT) is the answer for enterprise networking delivered by Gigabit Passive Optical Network (GPON). It is designed to redefine the business-as-usual connected experience with a passive optical LAN. The Alcatel-Lucent 7368 ISAM ONT G-040P-Q provides four Gigabit Ethernet (GigE) interfaces to the subscriber and paves the way to deliver premium triple play services in a fiber to the desktop environment. The 7368 ISAM ONT G-040P-Q is designed to take advantage of the Alcatel-Lucent award-winning management platforms including the Alcatel-Lucent 5520 Access Management System (AMS) platform.

The Alcatel-Lucent 7368 ISAM ONT G-040P-Q is designed for businesses, hospitals, hotels, real estate developers, and universities to deliver better triple play service experiences, reduce costs, and get value from your network for decades to come. It provides power over Ethernet (PoE) to reduce power consumption and avoid the need for local powering.

Features

- Four RJ-45 10/100/1000 Ethernet ports
- Wire speed data transfer for all packet sizes
- Optics support received signal strength indication (RSSI)

Benefits

- Delivers connectivity to Ethernet devices
- Uses the PoE, reducing the need for local power
- Possibility to use local power (when available in the location)
- Advanced dynamic bandwidth management allows prioritization per service and per 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.

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Technical specifications

Physical

- Height: 40 mm (1.6 in)
- Width: 130 mm (5.1 in)
- Depth: 209 mm (8.2 in)
- Weight: 0.4 kg (0.8 lb)

Operating environment

- Temperature: -5°C to 45°C (23°F to 113°F)
- Humidity: 5% to 95% relative humidity

Power requirement

- Local powering with 54 V input (feed uses external AC/DC adapter)
- Dying gasp support
- Power consumption: <80 W

GPON uplink

- 1490 nm wavelength downstream, 1310 nm wavelength upstream
- 2.488 Gb/s line rate downstream, 1.244 Gb/s line rate upstream
- GPON Encapsulation Method (GEM) mode support for IP/Ethernet service traffic support
- ITU-T G.984.3-compliant dynamic bandwidth reporting
- ITU-T G.984.3-compliant Advanced Encryption System (AES) in downstream
- ITU-T G.984.3-compliant FEC
- ITU-T G.988 Appendix 1 and Appendix 2 ONT Management Control Interface (OMCI)
- Remote software image download
- Small form factor (SFF) type laser, SC/APC connector

Ethernet interface

- 10/100/1000Base-T interface with RJ-45 connectors
- Ethernet port auto-negotiation or manual configuration with Medium Dependent Interface/Medium Dependent Interface with Crossover (MDI)/MDIX)
- Virtual switch based on IEEE 802.1q virtual LAN (VLAN)
- VLAN tagging/detagging per Ethernet port and marking/remarking of IEEE 802.1p
- IPv4 Type of Service/Differentiated Services Code Point (ToS/DSCP) to IEEE 802.1p mapping for untagged frames
- Class of Service (CoS) based on VLAN-ID, IEEE 802.1p bit
- Internet Group Management Protocol (IGMP) v2/v3 snooping
- Port-based downstream priority queues and strict priority scheduling for traffic CoS differentiation
- RFC 2236 (v2), RFC 3376 (v3)
- External IAD necessary to deliver voice service to a fiber to the home (FTTH) environment

Power over Ethernet

- Supports IEEE 802.3af and IEEE 802.3at PSE standard
- Max 30 W output for each port
- 80 W total power budget

LED

- Power
- PON
- LOS
- LAN (1~4)
- POE (1~4)

Safety and electromagnetic interference (EMI)

- Protection of over voltage/current

Regulatory compliance

- UL 60950-1
- FCC Part 15, subpart B
- ISE-003
- CE Mark
- CB Mark

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