

ALCATEL-LUCENT 7342 ISAM O-010S-P GPON SFP ONT

The Alcatel-Lucent 7342 Intelligent Services Access Manager (ISAM) O-010S-P Gigabit Passive Optical Network (GPON) Small Form Factor Pluggable (SFP) Optical Network Terminal (ONT) is G.984.2-compliant with SFP packaging. It integrates a bidirectional optical transceiver function with a GPON medium access control (MAC) layer function. It provides an asymmetric 1.244 Gb/s upstream and 2.488 Gb/s downstream GPON uplink and a Gigabit Ethernet service to any device capable of hosting this SFP, such as Ethernet switches, wireless backhaul equipment, Ethernet access devices (EADs), routers, remote digital subscriber line access modules (DSLAMs), and other customer premises equipment (CPE).



KEY FEATURES

- GPON ONT in a SFP multiple source agreement (MSA) footprint
- Compatible with Alcatel-Lucent GPON optical line terminals (OLTs) and CPE
- Compliant with Full Service Access Network (FSAN) G.984.2 specifications
- 1.244 Gb/s Tx, 2.488 Gb/s Rx asymmetric data rate
- Logical identifier (LOID) authentication
- Passive Optical Network (PON) link status notification
- Dying gasp notification
- OpenManage Client Instrumentation (OMCI) support per ITU-T G.988
- Internet Group Management Protocol (IGMP) functions
- Remotely managed by the Alcatel-Lucent 5520 Access Management System (AMS)

KEY BENEFITS

- Small form factor
- GPON anywhere, backhaul any Ethernet device with GPON
- Little space needed to convert an Ethernet box into a GPON-capable box
- Easy to install
- Low power consumption
- Easily upgrade installed base to a GPON
- More efficient use of the fiber facilities

APPLICATIONS

- Business services: IP high-speed data (HSD), provider backbone transport (PBT), and PB encapsulation
- Easily upgrade existing CPE to GPON fiber connectivity
- Subtending remote nodes

TECHNICAL SPECIFICATIONS

General

- Supports a sophisticated ONT management system, including alarms, provisioning, Dynamic Host Configuration Protocol (DHCP), and IGMP functions
- ITU-T G.988 OMCI compliant
- SFP Package Outline Industrial hardened

Regulatory compliance

- MIL-STD-883E
- IEC 61000-4-2
- Electromagnetic Interference (EMI), compliant with
 - FCC Part 15 Class B
 - EN55022 Class B (CISPR 22B)
 - VCCI Class B
- IEC 61000-4-3
- FDA 21CFR 1040.10 and 1040.11
EN60950, EN (IEC) 60825-1,2
- 2011/65/EC

Operating environment

- Temperature: -40°C to +80°C
(-40°F to +176°F)
- Humidity: 5% to 95% relative humidity
- Supply voltage: -0.3 V to +4.2 V

Optical

Transmitter

- 0.5 dBm to 4 dBm Average output power
- 1 nm Spectral width (-20 dB)
- 250 ps Optical rise/fall time (20% to 80%)
- 0.2UI Jitter generation
- Transmitter output eye compliant with ITU-T G.984.2

Receiver

- -47 dB Crosstalk 1310 nm Tx to 1490 nm Rx
- 30 dB Isolation ext 1550 nm to 1490 nm Rx
- -27.5 dBm to -8 dBm Received optical power
- -28 dBm Signal detect assertion level
- -40 dBm Signal detect de-assertion level
- 0.5 dB to 6 dB Hysteresis
- -3 dB to +3 dB RSSI accuracy
- ITU-T G.984.5 wavelength blocking filter isolation:
 - 7 dB at 1530 nm
 - 22 dB at 1539 nm
 - 30 dB at 1560 nm to 1625 nm