ALCATEL-LUCENT 7342 ISAM B-0404G-B
BUSINESS INDOOR ONT

The Alcatel-Lucent 7342 Intelligent Services Access Manager (ISAM) B-0404G-B business indoor Optical Network Terminal (ONT) provides four Gigabit Ethernet and four DS1 interfaces using RJ-48C ports. It terminates a Full Service Access Network (FSAN)-compliant Gigabit Passive Optical Network (GPON) fiber interface and is designed to deliver services with high-bandwidth capacity.

FEATURES

- Four RJ-45 10/100/1000 Ethernet ports with auto negotiation and media dependent interface/media dependent interface crossover (MDI/MDIX) auto sensing
- Four DS1 interfaces using RJ-48C ports
- Built-in Layer 2 switch
- Advanced data features, such as virtual LAN (VLAN) tag manipulation, classification and filtering
- Voice interworking function from the analog plain old telephone service (POTS) lines to the voice over IP (VoIP)/Ethernet layers
- Unstructured and structured DS1 service
- Circuit emulation services (CES) encapsulation of DS1 using the Structure-Agnostic Time Division Multiplexing (TDM) over Packet (SAToP) packetization format for transport over IP/User Datagram Protocol (UDP) across the layer
- CES encapsulation of DS1 using MEF 8 packetization format for transport across the Layer 2 Ethernet
- ITU-T G.984x compliant
- Forward Error Correction (FEC)
- Optics that support received signal strength indication (RSSI)
- Remotely managed by the Alcatel-Lucent 5520 Access Management System (AMS) network management system

BENEFITS

- Delivers connectivity to Ethernet within the office
- Supports full triple play services including voice through DS1, video and high-speed Internet access
- Supports IP video distribution
- Delivers video services efficiently with multicasting or unicasting
- Internet Group Management Protocol (IGMP) proxy
- Packetizes the voice service and transfer over the IP network
- Allows service providers to ease the transition from TDM-based networks to Ethernet by transporting legacy DS1 services over the Ethernet and GPON.
- DS1s for legacy infrastructure applications such as SS7 networks, PSTN interconnects and remote VoIP gateways or any other legacy applications with DS1
- Cell site backhaul for legacy 2G services.
- Support of legacy data and PBX applications

TECHNICAL SPECIFICATIONS

Physical
- Height: 33 mm (1.3 in)
- Width: 142.2 mm (8.2 in)
- Length: 208.3 mm (5.9 in)
- Weight: 0.44 kg (0.97 lb)
- Wall or desk mount

Operating environment
- Temperature: -40°C to +50°C (-40°F to +115°F) without solar loading
- Humidity: 5% to 95% relative humidity

Power requirement
- Local powering with 12 V input (with UPS and AC/DC power adapter)
- Dying gasp support
- Power consumption: Less than 9 W

GPON interface
- 1490 nm wavelength downstream, 1310 nm wavelength upstream
- 2.488 Gb/s line rate downstream, 1.244 Gb/s line rate upstream
- Compliant with TU-T G.984.2 Amd1, Class B+
- Full ITU-T G.984.3-compliant framing
- Supports single T-CONT mode and multiple T-CONT modes
- Small form factor pluggable (SFP) type laser, subscription connector/angled physical contact (SC/APC) connector
- AES-128 decryption with key generation and switching

Ethernet
- 10/100/1000Base-T interface with RJ-45 connectors
- Ethernet port auto negotiation or manual configuration
- MDI/MDIX automatic sensing
- Hardware priority queues on the downstream direction in support of class of service (CoS)
- VLAN tagging/detagging per Ethernet port and by piggyback reports in the dynamic bandwidth assignment report (upstream) (DBRu)
- IGMP snooping/proxy
- Broadcast/Multicast rate limiting
- Media access control (MAC) address limiting
- Priority and rate controlled scheduling

DS1 interface
- All DS1 support unframed mode
- RJ-48C connectors
- Compliant with ITU-T G.703 and G.704
- Supports superframe (SF) and extended superframe (ESF) formats with T1.403
- Supports loopback in network side and line side
- Error counter with:
  - ¬ Errored seconds (ES)
  - ¬ Severely errored seconds (SES)
  - ¬ Bursty errored seconds (FES)
- Supports the following alarm signals:
  - ¬ Alarm Indication Signal (AIS)
  - ¬ Loss of Signal (LoS)
  - ¬ Remote Alarm Indication (RAI)

LED
- Power
- Battery power
- Equipment alarm
- Data
- Optical
- Management communication
- DS1

Safety and electromagnetic interference (EMI)
- UL 60950 for safety compliance
- FCC

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