Aculab ApplianX IP Gateway 8 Trunk E1/T1

Product Name: Aculab ApplianX IP Gateway 8 Trunk E1/T1
Manufacturer: -
Model Number: ACS0200

Please Note: The Aculab ApplianX IP Gateway 8 Trunk E1/T1 has been discontinued. For an alternative range, we highly recommend the Sangoma Vega 400G range

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The ApplianX IP Gateway can be used in a variety of VoIP migration strategies, whether it is connecting a TDM-based PBX to a new IP network, or IP PBX; or providing a PSTN front end to SIP-based solutions. It is a 'plug & play' gateway that, regardless of deployment, can reduce operational costs, extend the life of existing TDM-based equipment and allow advantage to be taken from a new IP-based services and endpoints. Telephone network Interfaces On the PSTN side, the ApplianX IP Gateway provides 1,2, 4 or 8 universal T1/E1 (USA, Japan, Europe and Worldwide) interfaces, with a wide range of signalling protocols, including PRI/ISDN types, T1 robbed bit and E1 CAS, R1, R2, and DTMF, plus PBX protocols such as Q.SIG and DPNSS. A different protocol can be selected for each trunk. IP Interfaces On the IP Side, the ApplianX IP Gateway provides dual redundant traffic interfaces for SIP signalling, with RTP voice. Within the RTP stream there is support for G7.11 and G.729AB codecs. Traffic Routing Controlling traffic between IP and TDM is a comprehensive call routing engine, allowing configuration of a variety of routing strategies: implementing and routing upon trunk groups; support for multiple dial plans; and strategies for handling call progress information. For integration with SIP systems supporting redundancy, the gateway provides load balancing between endpoints on a round robin basis. In addition, the gateway supports a wide range of failover options in order to be resilient to various network failures. Comprehensive management A private (non-traffic) Ethernet port gives access to the integral HTTP server and provides an intuitive HTML web browser interface with separate password protected access levels, to allow configuration, administration, and traffic monitoring and diagnosis. A comprehensive set of SNMP facilities (including traps) provide management facilities within a traditional network management environment. A range of ApplianX Tools are freely available to further assist with the configuration of the gateway. The ApplianX Search Tool aides the installation process by finding ApplianX devices on the network, revealing their serial number, type and IP address. The ApplianX Trace Tool is an easy to interrogate tool that captures previous or live protocol trace and decodes/displays it. Supplementary service support In addition to basic call control, key supplementary services are also supported including: Diversion (Immediate, On Busy, On No Reply); Route Optimisation; Message Waiting Indicator; and Transfer. These services can be converted over SIP, DPNSS and Q.SIG. Features

• endpoints, comes with a comprehensive management suite including an HTML web. This deployment-ready solution, which can bridge between various TDM and IP browser configuration tool and support for SNMP
• Extensive portfolio of worldwide protocols supported including: PRI/ISDN types; T1 robbed-bit; E1 CAS; R1; R2; AT&T and NI2
• Comprehensive support for PBX inter-working protocols, such as Q.SIG and DPNSS allowing the conversion of supplementary services including: Divert, Route Optimisation, Message Waiting Indicator and Transfer to SIP
• Controlling traffic between IP and TDM is a comprehensive call routing engine.
• SIP load balancing and fault tolerance
• The gateway can fallback to TDM should the SIP network fail

Benefits

• Utilises familiar interface tools making the ApplianX IP Gateway easy to install, configure, maintain and manage

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• ApplianX IP Gateway will support the protocol needed to connect to the TDM network, wherever it is installed in the world
• Allows investment in legacy equipment such as PBXs to be protected, they can remain in service while new IP-based services endpoints can be taken advantage of
• You have complete control over the routing strategies deployes SIP-to-TDM, or SIP-to-SIP
• Outbound calls are attempted on a round robin basis so that calls can automatically be routed away from unresponsive endpoints
• Calls can still be made and received even if there is a problem with the IP network

Technical Specification Network Interfaces

• Ethernet: Dual redundant 10/100 BASE-T and separate private management interface via front panel RJ45 connectors
• Telephony: 1, 2, 4 or 8 E1/T1 trunks via front panel RJ45 connectors

Signalling and control protocols

• IP: SIP, RTP, TCP, UDP
• PSTN: ISDN - A wide range of protocols* including; R2 MFC and T1 robbed bit
• CAS: A wide range of protocols* including; including; R2 MFC and T1 robbed bit
• Capacity: 24/30, 48/60, 96/120 or 192/240 (T1/E1) independant voice calls
• Security** SRTP, TLS, SIPS, HTTPS

Feature Support Voice Codecs

• G.711, G.723.1**, G.726**, G.729AB, GSM-FR** (GSM6.10, MSGSM) dynamically selected on a per channel basis
• DTMF detection and generation; inband; pass-through; DTMF relay and user indicatons (RFC 2833); DTMF out-of-band (SIP INFO, RFC 2976)
• Fax**: T.30 and T.38 fax receive and transmit; fax over G.711
• Echo cancellation: G.168 compliant
• QoS: Enhanced jitter
• Supplementary services: Diversion (Immediate, On Busy, On No Reply); Route Optimisation; Message Waiting Indicator; and Transfer
• Additional Functionality: Comfort noise generation; voice activity detection; silence supression.

Operational Management

• Configuration: Via easy to use embedded web/HTTP interface
• Management: Via SNMP and DHCP

Hardware

• Dimensions: 1U High, 19" wide rack mount
• Power: 110-230V AC Power supply
• Regulatory: EC Directive 2002/96/EC (WEEE; EC Directive 2002/95/EC (RoHS
• EMS standards: EU-EN55022; EN55024; USA-FCC part 15
• Safety: CB Certification; UL/CUL low voltage directive 73/23/EEC
• Operational Environment: Operating temperature: 0°C to +40°C; humidity: 20% to 80% RH non condensing.

Please Enquire