SIP30 VoIP Conversion Unit

The Avara SIP30 can facilitate migration from Analog voice to VoIP without decommissioning your existing PDH systems. With Avara's FXS/E1 to SIP Conversion product standard FXS Systems can be converted to SIP and interfaced to gateways such as Cisco's Unified Communications Manager with support for advanced features.

Power utilities, oil and gas, mining, transportation and emergency services organizations have significant install bases of PDH equipment including Dynanet. One of the key functions provided by this equipment is voice grade telephone access particularly in sub-stations environments where hardened solutions are required.

Many such organizations are moving to VoIP based corporate telephone system and now need a way to provide telephone connectivity from the sub-stations to the corporate telephone systems.

As analogue telephones connected to the FXS ports on PDH equipment are currently available in the sub-stations, the preferred option is to convert these standard analogue interfaces to SIP and interface them to the SIP Gateways like CISCO's Unified Communications Manager over an Ethernet connection thereby minimizing deployment costs considerably.

Avara's SIP30 product provides not only basic telephony features such as call establishment and ringing allowing existing analogue extensions to communicate with any internal or external telephone connected to the SIP Gateway, it also supports advanced features such as call Hold/Resume, Transfer, Forwarding, Parallel Ring, Group Pickup, Hunt Group, Common Bell Group, and Ad-hoc Conferencing as long as a DTMF capable handsets with a 16 character keypad is available at the site.

With the SIP30, each analog handset gets a unique IP address and optionally can be placed on specified VLANs with selectable priority thus allowing network designers flexibility in creating their mission critical networks.

On the PDH side, the SIP30 can terminate up to 30 voice channels from up to 4 E1 interfaces and convert them to SIP.

A full 64K cross connect is available on board to perform grooming of the TDM voice circuits allowing the SIP30 to be located at more centrally and easily accessible sites.
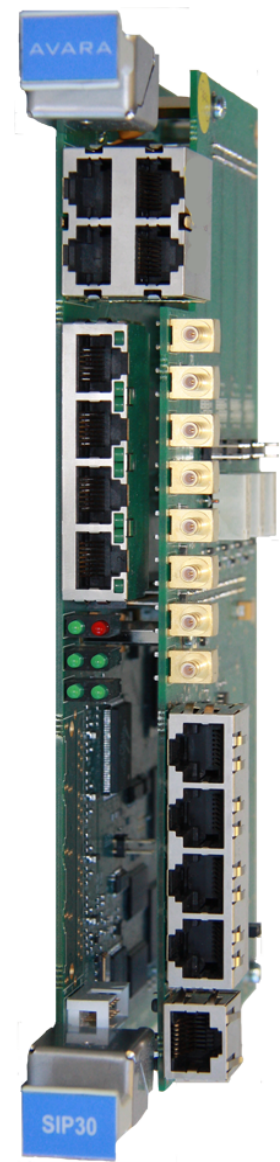
The SIP30 has also been designed to meet the environmental and susceptibility requirements for operating in harsh environments with respect to ESD, fast transients, susceptibility to radiated emissions, surge and dielectric strength making it an ideal choice for sub-station applications.

The SIP30 can be managed remotely using Telnet, SNMP or Avara's Web Server over secure VLAN.

Additionally, the SIP30 can be managed via 3rd party management systems.

Technical Highlights

- Parallel Ring
- Group Pick Up
- Hunt Group
- Call Forwarding
- Call hold
- Common Bell Group
- Ad-hoc Conferencing
- Ease of management
- Single point of configuration
- Industrial Grade Operting Temperature
- High MTBF
- Fully Managed (SNMP/Telnet/Web Browser)

Technical Specifications

Model Order Code	P21040.02
Mechanical Height Depth Width	233mm 160mm 100mm (Occupies Two Slots)
Interfaces E1 Ethernet (Electrical)	G.703/G.704 2M/Nx64K, Framed, Unframed, CRC4 10/100Base-T (RJ45) (Switched)
Switch Parameters Speed Autonegotiation Duplex MDI/MDIX Support IEEE 802.1p/q MAC Address Size VLANs Supported Rate Limiting Traffic Shaping Priority Queues Per Output Port Mirroring	10/100Base-T Yes Full/Half Yes Yes 2K 4096 128K, 256K, 512K, 1M, 2M, 4M, 8M Strict & Weighted Round Robin 4 Yes
Management Local Remote	CLI via Console Telnet, SNMP, Web Server
Security Data Interfaces Management	Dedicated VLAN Password Protection, Dedicated VLAN

Power Power Supply Power Consumption	-20 to -72 VDC 10W
MTBF	65 Years
Alarm Contacts	2x Relay outputs with current carrying capacity of 1A @ 24V Capable of driving A & B sub-rack alarms on M4 or sub-racks 5-90% (Non-condensing)
Environmental Operating Temperature Relative Humidity	-5 °C to +65 °C 5-90% (Non-condensing)
Standards	IEEE 802.3 Ethernet IEEE 802.3u Fast Ethernet IEEE 802.1p VLAN Tagging IEEE 802.1q Prioroty Queing IEEE 802.3x Flow Control RFC1157 SNMP RFC1213 MIB II RFC854 Telnet RFC783 TFTP S002 PSTN Interconnection S003 Customer Premises Switching S004 VF Performance EN55022 Class A Emissions EN60950 Safety AS/ACIF S016 EN55024 Immunity EN50082-2 Generic Immunity ITU-T X.21 ITU-T V.11 ITU-T G.823 ETS 300 019 -1-1 Operational ETS 300 019 -1-2 Storage ETS 300 019 -1-3 Transport

Head Office

9 Business Park Drive
Notting Hill, Victoria 3168
Australia
Tel: +61 3 95400330
Fax:+61 3 99236545

www.avaratechnologies.com

Regional Distributor

Quality
ISO 9001

N13071 CE RoHS COMPLIANT

We make every effort to ensure this item has been created from environmentally sustainable products. We only print what we need.