Engage Communication

IPTube•SS7•SIG•RS530

· SS7 Over IP Signalling ·

The **IPTube•SS7•SIG•RS530** transports SS7 messages over IP networks. SS7 signaling network elements such as local and tandem switches, Mobile Switching Centers, Signal Transfer Points and Home Location Registers that are interconnected to remote network elements by **IPTube•SS7•SIG•RS530s** are able to transmit their signaling messages over cost effective and flexible IP networks.

The **IPTube•SS7•SIG•RS530** is available as a DTE or a DCE industry standard RS530 interface. The DTE interface connects to the SS7 equipment's communication link through a T1 or E1 Multiplexor for connection to the SS7 DS0.

SS7   **IP**   **IP**   **SS7**

LANS, WANS, MANS, Wireless Ethernet, Satellite

Mobile Switching Center

SS7 Telecom Node

SS7 Signalling Over IP
- **Reduces Network Transport Costs**
- **Deployment Flexibility**
- **New Revenue Opportunities**
- **Exploits Efficiency and Flexibility of IP**

Reduced Transport Costs
Carriers significantly reduce SS7 transport costs by replacing expensive long-haul dedicated signaling links with very competitively priced IP connectivity between network elements. Service providers cut costs with SS7 Over IP by offloading data traffic from SS7 networks onto IP networks.

New Revenue Opportunities
The demand for data-centric services such as Short Message Service and Unified Messaging has created an opportunity for carriers to capitalize on new revenue generating opportunities. Cost-effective IP transport technology and service-rich SS7 applications enables carriers to quickly integrate enhanced services and capture new revenue.

Legacy Investment Protection
Establishing an SS7 network with **IPTube•SS7•SIGs** does not require expensive forklift replacements or costly software upgrades for existing end nodes.

Deployment Flexibility
Widely available commercial and private IP networks provides the SS7 network designer with competitive options for interconnecting the signaling points.

IPTube•SS7•SIG•RS530

Industry Standard SS7 Framer

The **IPTube•SS7•SIG•RS530** uses an industry standard SS7 Framer to receive and transmit SS7 messages. Minimal IP bandwidth is required to deliver SS7 since only the message data is encapsulated into IP packets.
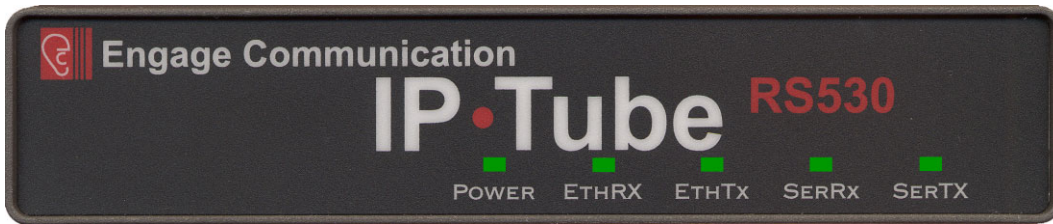
Management of the **IPTube•SS7•SIG•RS530** is accomplished with a Command Line Interface that is accessed through a Console or Telnet connection. Templates of the most common configuration provide for an Edit and Paste configuration.

Technical Specifications

LAN Network Interface:
- 10BaseT Ethernet

LAN Network Protocols Supported:
- IP, TCP, UDP, ICMP, BOOTP

SS7 Over IP Protocol:
- SS7 Frame UDP encapsuation

RS530 Interface:
- Standard DTE/DCE DB25 Female
- DTR Controlled Transmission
- CD Reception Indicator

Regulatory:
- Safety -IEC60950
- EMC - CFR 47 Part 15 Sub Part B:2002
  - EN55022:1994+A1&A2
  - EN55024, ICES-003 1997
  - CISPR 22 Level A
- Telecom - Part68
- CE

Quality of Service Support:
- IP Type of Service (TOS) CLI configurable
- IANA Registered UDP Port 3175

TFTP Online Upgrade Capable (FLASH ROMs)
- IPTube is fully operational during upgrade

Management:
- Telnet support with Edit and Paste Template Files
- Console Port for Out of Band Management
- SNMP support (MIB I, MIB II)
- Remote configuration, monitoring, & reset

Power:
- 24VAC, 1.0A
- Optional 12-36 VDC 1.0A
- Optional -48V 0.25 Amp
  International Adapters Available

Dimensions:
- 9" (L) x 7.3" (W) x 1.50"
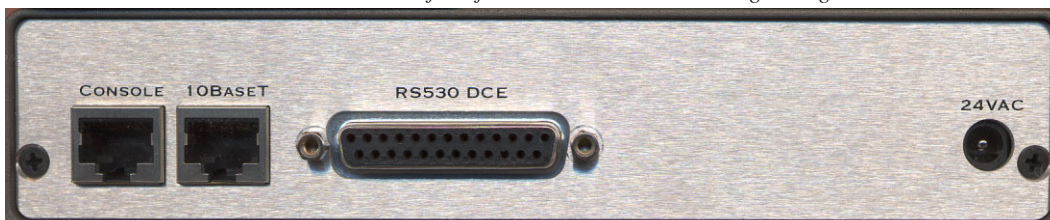
DC Back Panel

RS530 DTE/DCE Interface for connection to an SS7 Signalling Node

AC Back Panel

24 to 36 Volts DC Model
-36 to -72 Volts DC Model

RS530 DTE/DCE Interface for connection to an SS7 Signalling Node

Console Port Connector
• RJ 45 to DB 9 Male Adapter provided
Standard 10BaseT Ethernet interface
15-30 Volts AC

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