



ISDN TERMINAL ADAPTER

The Sentinel ISDN Terminal Adapter provides access for an ISDN (BRI) terminal to the Sentinel Internet Protocol (IP) network. The terminal can be either nonsecure or secure, such as the Brent phone. Use of this adapter with the Sentinel Desk Access Unit (DAU) allows standard ISDN phones to operate alongside new Sentinel IP phones within a modern tactical communication network.

The ISDN terminal adapter uses the same case and styling as the Sentinel IP Phone. It provides a rugged unit capable of use in the field under canvas (tent) or installed within a military shelter mounted on a wheeled vehicle. Although a rugged device, it exploits commercial off-the-shelf (COTS) components and commercial standards.

The ISDN Terminal Adapter simply connects to the DAU via a military-style connector supporting Ethernet 10/100-Base-TX.

To further increase ease of use and reliability, the connection is also used to provide “power over the Ethernet” to the adapter. Connection to the two ISDN interfaces is also via two military-style connectors.

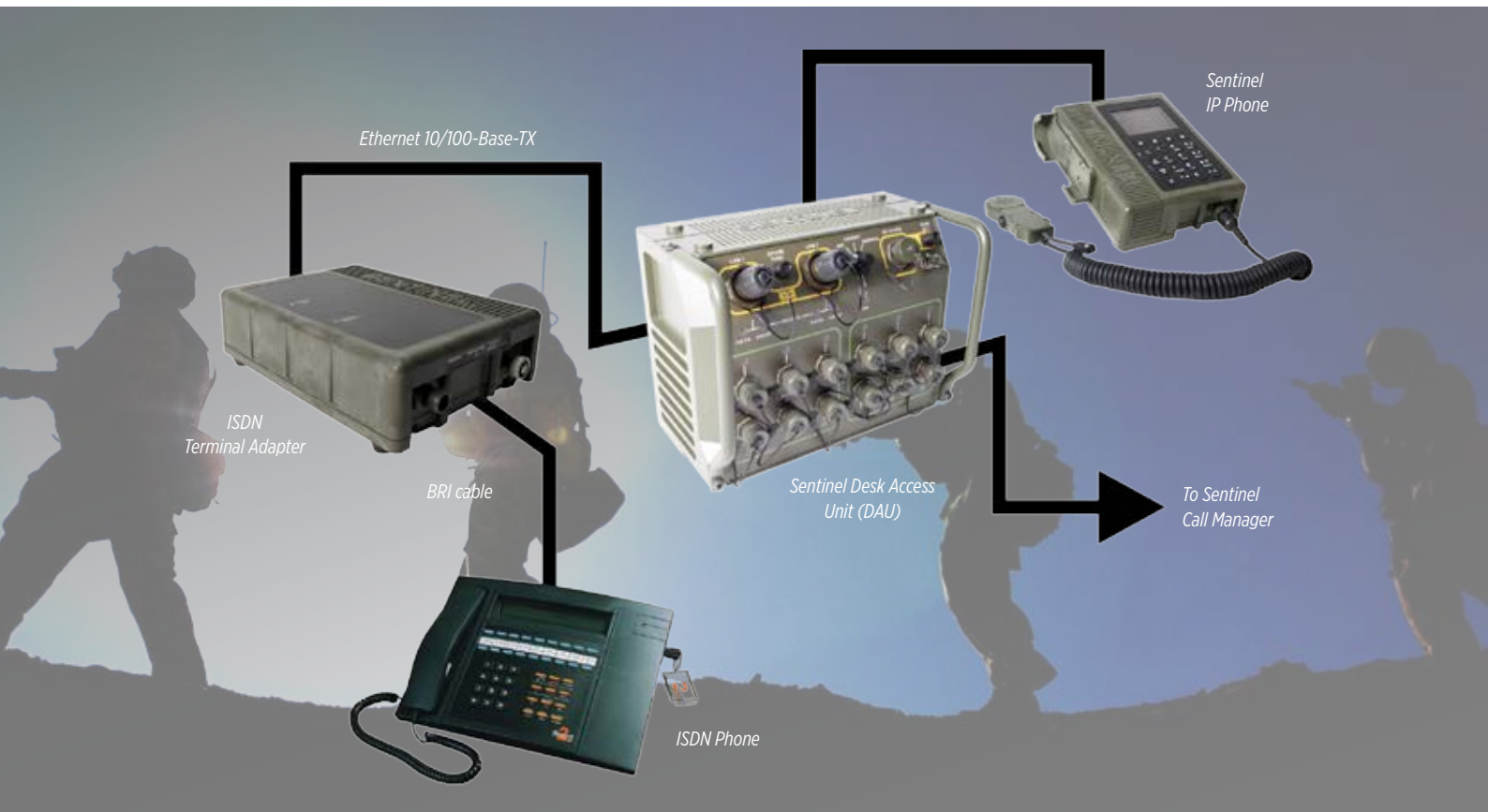
The ISDN Terminal Adapter uses open standards and will interface to both Sentinel and third-party call managers (Gatekeepers). Automatic Gatekeeper discovery provides plug-and-play operation.

DESIGN FEATURES

- Design features
- Open standard ISDN Gateway
- Designed for military operation
- Low-cost deployment
- Automatic Gatekeeper discovery reduces set-up time
- Equipment and line status indicators
- Integrates with Sentinel Management System
- Can be used with third party VoIP systems.

SENTINEL

TYPICAL OPERATING SYSTEM



MILITARY FEATURES

- Connection to Brent secure phones
- CODEC selection
- Precedence and pre-emption
- Software upgradeable
- No user maintenance required
- Lightweight rugged plastic case.

TECHNICAL SPECIFICATION

Network protocols	H.323 v2, H.225, H.245, RTP, RTCP and RAS DHCP (for IP address allocation)
Network Interface to DAU	Ethernet 10/100-Base-TX and over Ethernet to IEEE 802.3af (48 VDC)
Codec support	G.711, G.729
BRI interfaces (2B+D)	DTMF
Management interface	SNMP v2
Power consumption	10W (Using local or line feed ptions)
Dimensions	80mm high/180mm wide/240mm deep
Weight	1.5kg

CLIMATE ENVIRONMENT

Temperature	
Storage	-10°C/70°C
Operating	0°C/55°C
Humidity	0-98% RH non-condensing at 35°C
Driving rain	25mm/hour
Dust/sand	1 gm/m3 at 50 m/s for 1 hour non operational
Snow and Ice	13m/s 0.2kg/m2 30 min and 6mm ice -10°C non operational

INDUCED ENVIRONMENT

Vibration	0.02g2/20Hz to 500Hz
Shock	15gn 11ms half sine
EMC	Mil Std 461E
Reliability (MTBF)	70,000 hours ground fixed
MTTR	30 minutes