



## SENTINEL ISDN TERMINAL ADAPTER

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

The two-port ISDN terminal adapter uses the same case and styling as the Sentinel IP Phone, in order to provide 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 increase 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 Gatekeepers. Automatic Gatekeeper discovery provides plug-and-play operation.

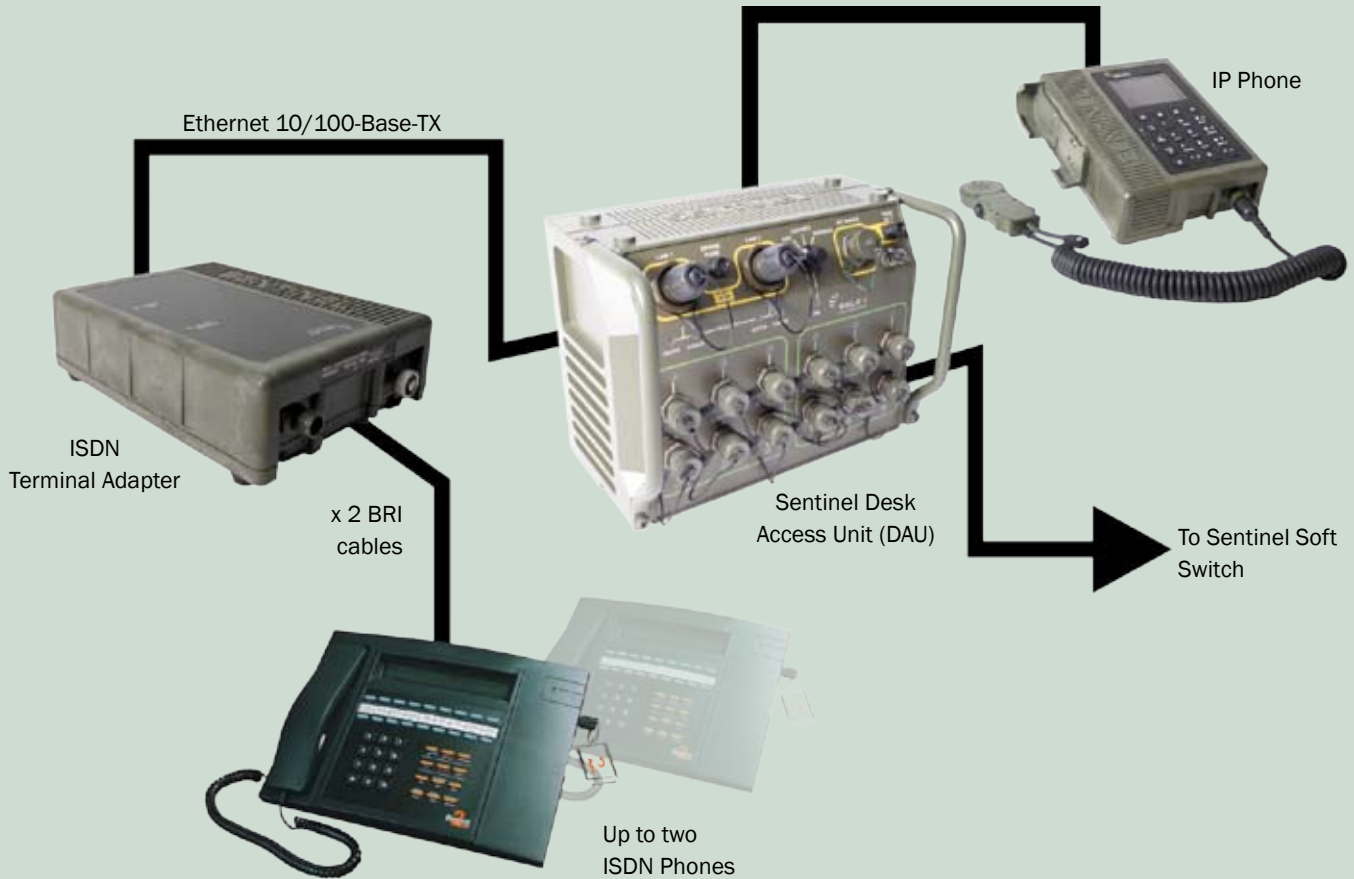
### DESIGN FEATURES

- > 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

### MILITARY FEATURES

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

## TYPICAL OPERATING SYSTEM



## TECHNICAL SPECIFICATIONS

### Network Protocols

H.323 v2, H.225, H.245, RTP, RTCP and RAS  
DHCP (for IP address allocation)

### Network Interface to Desk Access Unit

Ethernet 10/100-Base-TX and Power 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 options)  
Dimensions 80mm high/180mm wide/240mm deep  
Weight 1.5kg

### Climate environment

Temperature:	Storage	-10°C/58°C
	Operating	0°C/40°C
Humidity	0-98% RH non-condensing at 35°C	
Driving rain	25mm/hour	
Dust/sand	1 gm/m <sup>3</sup> at 50 m/S for 1 hour non operational	
Snow and ice	13m/S 0.2kg/m <sup>2</sup> 30 min and 6mm ice -10°C non operational	

### Induced environment

Vibration	0.02g <sup>2</sup> /20Hz to 500Hz
Shock	15gn 11ms half sine
Drop	50m drop

EMC	Mil Std 461E
Reliability (MTBF)	70,000 hours ground fixed
MTTR	30 minutes