



## ANALOGUE TERMINAL ADAPTER

The Sentinel Analogue Terminal Adapter is a multifunctional adapter that integrates analogue devices such as fax machines and telephones into an infrastructure of Internet Protocol (IP) based telephony.

Use of this adapter with the Sentinel Desk Access Unit (DAU) will allow standard analogue phones to operate alongside new Sentinel IP phones within a modern tactical communication network.

This six port analogue 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 Analogue Terminal Adapter simply connects to the DAU via a military-style connector supporting Ethernet 10/100-Base-TX.

To improve ease of use and increase reliability, the connection is also used to provide “power over the Ethernet” for the adapter. Connection to the six analogue interfaces is via pairs of binding posts or, optionally, military style connectors can be provided.

For facsimile transmissions, the T.38 protocol is used. This guarantees failsafe transmission and consistent standard conformity. As the adapter only transmits actual payload information, the required bandwidth is as little as a regular compressed IP telephone call. The Adapter uses open standards and will interface to both Sentinel and third-party call managers (Gatekeepers).

### DESIGN FEATURES

- Open standards analogue terminal adapter
- 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

## MILITARY FEATURES

- Eurocom tones
- CODEC selection
- Precedence and pre-emption
- Software upgradeable
- No user maintenance required
- Lightweight rugged plastic case Automatic Gatekeeper discovery provides plug-and-play operation.

## TECHNICAL SPECIFICATIONS

### NETWORK PROTOCOLS

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

### NETWORK INTERFACE TO DESK ACCESS UNIT

Ethernet 10/100-Base-TX and Power over Ethernet to IEEE 802.3af  
(48V DC)

### CODEC SUPPORT

G.711, G.729

### ANALOGUE PHONE INTERFACE

DTMF and pulse dial

### FACSIMILE INTERFACE

G3, T.38

### MANAGEMENT INTERFACE

SNMP v2  
Power consumption 12W (Using local or line feed options)  
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/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

### DESIGNED TO MEET INDUCED ENVIRONMENT

Vibration 0.02g 2/20Hz to 500Hz  
Shock 15gn 11ms half sine  
Reliability (MTBF) 70,000 hours ground fixed  
MTTR 30 minutes

