



SENTINEL DESK ACCESS UNIT

Embracing best-of-breed Commercial Off-The-Shelf (COTS) technology, the Desk Access Unit (DAU) provides the Sentinel system with the capability to form Local Area System networks. The DAU is quick and easy to deploy, being a standard, small unit that can be interconnected in any order using a single copper or fibre optic cable.

The Sentinel DAU exploits robust COTS Ethernet switches to provide 10/100Mbps Ethernet connections for IP data and Voice over IP (VoIP) devices and up to 1 Gbps for interconnectivity. These user devices can be connected to a free port and will readily function without any pre-planning.

The DAU provides:

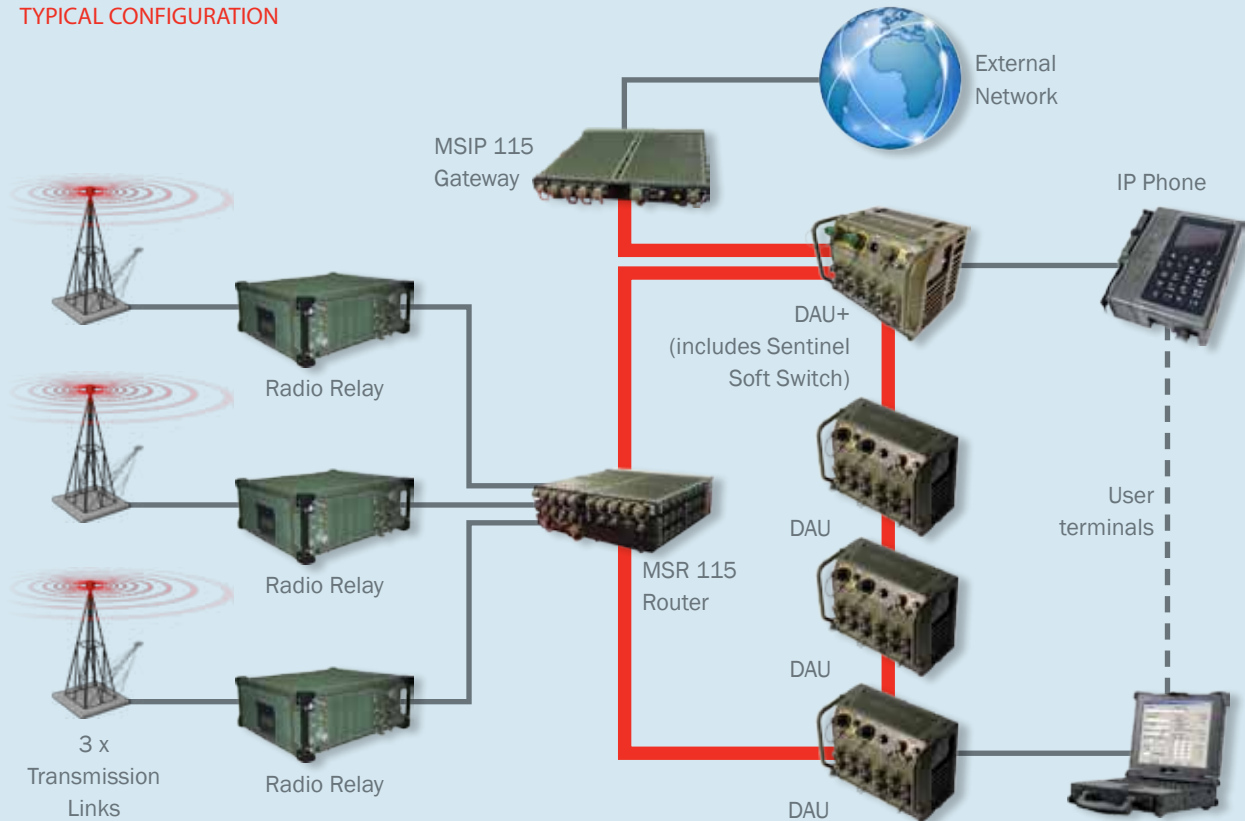
- Fast deployment tactical voice and data LAN connectivity
- Converged voice and data (separable if required)
- Optical and copper connections
- High capacity, leading edge technology
- Self-organising, plug-and-play redundant topologies

A DAU can support six Power over Ethernet (PoE) devices, such as Sentinel VoIP phones and Terminal Adapters. This allows quick deployment and avoids the overhead of separate power distribution. There are also six additional non-powered ports for other devices such as data terminals.

The system is self-organising and will adapt to any routing topology to automatically exploit redundancy and resilience, especially if deployed in a ring configuration.

The use of legacy ISDN and analogue phones within the network is permitted through the use of ISDN and analogue terminal adapters. These can be connected to the PoE ports on the DAU. Each ISDN terminal adaptor has connections for two ISDN phones, whilst each analogue terminal adaptor can support six analogue phones and fax machines.

TYPICAL CONFIGURATION



Voice and data switching

The key benefits are:

- 1Gbps fibre and 100Mbps copper ports
- Configured to support voice and data
- Auto-sense of data link rate and cable format
- SNMP management

Implementation value for money

The Sentinel DAU offers the following from the use of best-of-breed COTS technologies:

- Inexpensive initial provision and update costs
- Low set-up costs, low user resource requirements
- Minimal training requirements
- Readily expandable system
- Available in free standing and 19" rack mounting variants

Features

- Small rugged packaged and stackable
- Single or multimode fibre support
- Fully non-blocking Ethernet switch
- Redundant link management
- SNMP
- QoS
- Equipment and link status indications

Interfaces for the sentinel desk access unit

- 12 x 10/100 Mbps copper ports (6 with PoE, e.g. for Sentinel VoIP phones and terminal adapters)
- 2 x 1Gbps fibre optic ports
- Auto-ranging 110V-230V AC power 50Hz/60Hz

Climate/environment

Temperature:

- Storage -40 °C to +70 °C
- Operating -40 °C to +55 °C

Humidity 0-95% RH non-condensing

Driving rain 200mm/hr

Dust/sand 1.1g/m³ for 3 hrs

Snow 0.53kg/m²/s at 13m/s for 30 mins

Induced environment

Vibration 0.02g²/20Hz to 500Hz

Shock 15gn 11ms half sine

EMC Mil Std 461E