



The HMO (Highly Mobile Office) Briefcase is a complement to SWE-DISH SatCom terminals to give a complete and integrated solution for voice, data and video communication over secure broadband satellite links. The HMO Briefcase is the ideal solution for Emergency Management & Disaster Recovery (EM & DR) or a military forward command post. The HMO Briefcase can support 20 users or more in the field with voice (choose between wired and wireless both analogue and IP handsets), LAN/WLAN connections for computers, video conferencing, video streaming and RoIP (Radio over IP, disparate multi force/agency UHF or VHF radio networks can be integrated in to the HMO's Cisco IP router).The system is optimized for size and weight, and contains unique convection air-cooling and internal power distribution allowing for very economical use of space. This extremely compact and highly mobile command post can be established in less than 10 minutes by one person. The solution is so compact and light that operators can easily bring it alone by plane, helicopter or small cross country vehicle. Over short-medium distances the HMO is carried easily.

CAPABILITY AND SECURITY

The HMO Briefcase is designed to seamlessly accommodate and connect to all type of IP based communication equipment, such as laptops, handheld computers, Video Conferencing, VoIP phones, Video Encoders, etc. The unit contains a standard server/PC, Ethernet switch (all Ethernet ports are able to provide power to POE devices), Cisco ISR 2800 Router with call manager express IP PABX and power distribution. Also included are 8 ports for connection of Analogue Voice services, including facsimile. An integrated WLAN access point and RoIP support is optional. Integrated into the case lid is a LCD

monitor, mouse and all external connectors. The HMO Briefcase can easily be configured to use external customer supplied encryption devices to secure the traffic. Several security options are also available such as; integrated VPN module, SW Firewall (protecting the WAN entry point into the network), IPS (Inline Intrusion Prevention, an in-line, deep-packet-inspection-based solution to effectively mitigate network attacks) and NAC (Network Control And Containment, stems the spread of viruses and worms in the network by providing access only to trusted devices that match established access and security policies).

WIRELESS COMMUNICATION

The HMO Briefcase has several wireless communication options for rapidly establish computer and radio networks when first responders or war fighters move into areas where there is no communications networks available. With an integrated Wi-Fi access point, the HMO Briefcase can act as base station for a tactical WLAN network providing wireless connectivity for various computing devices such as laptop computers, Personal Digital Assistants (PDA), digital camera, wireless VoIP phones, etc. The reach of the WLAN can easily be extended with repeater stations. Push-to-Talk UHF and VHF radios are widely used by governmental organizations and UHF and VHF radio networks can be integrated in to the HMO Briefcase through the RoIP (Radio over IP) support. Offering a true 'any voice to any voice' capability, the user can communicate from any of analogue or VoIP phone to any of the Push-to-Talk handsets connected to the network. Having an IP-based infrastructure the HMO Briefcase is future proof, any type of IP based radio device can be connected, for example a WiMAX access point.

KEY FEATURES

- Potent Comms solution - Gives 20+ users access to secure voice, data and video applications through an encrypted broadband satellite link.
- Joint Forces and Inter-Agency collaboration - information exchange through real-time video streaming, Video Conferencing, 'any voice', and much more
- Wireless communication – Tactical Wi-Fi and UHF/ VHF radio networks
- Easy integration – IP-based infrastructure for easy integration in to existing networks
- Highly mobile - portable and rugged design for rapid and emergency deployment

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TECHNICAL SPECIFICATIONS: SWE-DISH™ HMO BRIEFCASE

BASE SYSTEM

The base specification for the HMO Briefcase is listed below.

Enclosure

Material	Aluminum
Size	52x36x20cm
Weight	14Kg (dependant on fitted options)
Environmental Protection	IP 56 (During Transit)

Computer

CPU	Intel Pentium M
Memory	512Mb
HDD	80Gb
HMI	Stainless steel keyboard and trackball incorporated into case.
	15" LCD monitor incorporated into case lid
Optical Drives	Not Included, may be connected via USB
USB	2 Ports USB 2.0
Sound	1 Ear and 1 Mic Port
Software	MS Windows XP Pro supplied.

The Computing platform is capable of being used, with the correct software, as a local authentication server, an application server, or a store and forward system, using appropriately specified HDD and DRAM.

Communications

Router	Cisco 2800
Ethernet	1 Port for connection to IPT (or other broadband modem). 12 ports for connection of IP Telephones and IP network devices
VLAN	All Ethernet ports are able to be configured for 802.1Q VLAN

Power Over Ethernet
All Ethernet ports are able to provide power to POE devices.

VoIP

POTS
8 ports for connection of Analogue Voice services, including facsimile.

Call Manager	Cisco Call Manager Express (Licensed to support 16 IP Telephones)
Voice VLAN	Ethernet ports configured for separate VLAN for IP telephony.

Power Requirements	
Input voltage	100-240 Volts
Input Frequency	50/60 Hz
Connection	IEC 3 pin (Computer Style)

OPTIONS

Tactical Wi-Fi

Access Point	Cisco 802.11 a/b/g
Connection	Dual RP-TNC coaxial connectors (suitable for diversity reception)
Antenna	Dual External Tripod mounted Omni-Directional (6M cables supplied)

Usage of the Wireless LAN may include, but not limited to, connection of laptop machines, connection of wireless IP telephones, and the connection of WLAN surveillance cameras.

IPSEC

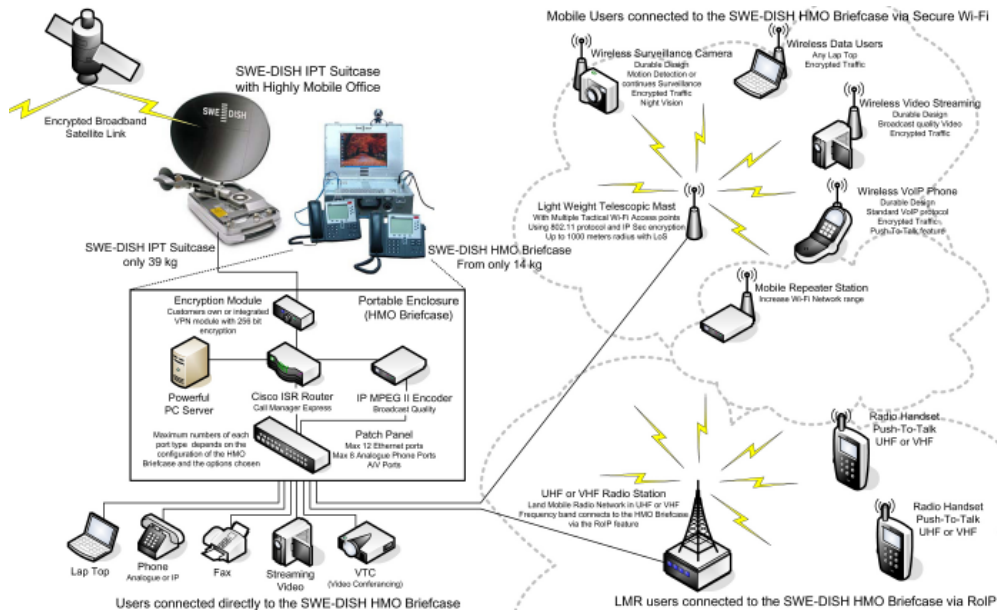
Software	Cisco IOS based VPN / IPSEC 3DES / AES
Hardware	Cisco VPN Acceleration module
Throughput	Easily exceeds broadband capability (>4MB/s)

Integrated MPEG-2 Video Encoder

Hardware	Hardware Based MPEG-2 Encoder
Input(s)	2 RCA Audio, 1 BNC Composite Video, 1 BNC SDI
Output	IP stream

RoIP

One or more UHF or VHF radio networks can be integrated in to the HMO's IP based infrastructure, please contact SWE-DISH for more information.



Specifications are subject to change without notice. This datasheet will not form part of any contract.

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