

SHERPA NETWORK CORE

COMMUNICATION WHEN IT'S NEEDED MOST.



Photo courtesy of the U.S. Army


SHERPA™
Interoperable Deployable
Communications System (IDCS™)

The Network Core provides a lightweight, flexible, integrated solution to meet emergency communications needs – disaster recovery, emergency management, continuity of operations, rapid infrastructure. This flexible core provides voice, video, and data in a single, integrated package and serves the role as a gap filler for those needing flexible communications fast. SHERPA™, shouldering the load.

KEY ADVANTAGES

- Single Integrated Appliance
- Ruggedized to stand tough environments
- Supports both Satellite and available terrestrial connectivity
- Modular system design – tailors and scales easily to meet user needs
- Interoperable with other standards-based systems





SHERPA NETWORK CORE

KEY SPECIFICATIONS

EXTERNAL CONNECTIONS

WAN Connection (1000 Base T)	1
10/100 Base T(x) Ports (Power over Ethernet)	24
USB 2.0 Ports	4
IEEE 1394 (Firewire) Ports	3
VGA Ports	1
External Microphone In	1
Headphones Out	1
Audio In (L/R) (600 Ohm)	2
Audio Out (L/R)	2
Composite Video In/Out	2
S-Video In/Out	2
RJ-11 (FXS) Ports	2
RJ-11 (FXO) Ports	2
802.11 a/b/g Antenna connections (TNC)	2

VOIP PBX

Maximum Number of Subscribers	96
Trunking Protocols:	H.323, SIP, SCSP
Voice CODECs Supported:	G.711, G.723, G.729
(Note: Can be customized to provide ISDN trunking support. Contact MPRI for details)	

VTC BRIDGE

Connection Protocols:	H.323, SIP
(supports 3G, H.320, POTS with optional gateway)	
Audio CODECs	G.711, G.72, G.722.1, G.723.1, G.729A, ILBC
(supports audio transcoding)	
Video CODECs	RTVideo, H.261, H.263, H.264
multistream with Intelligent Continuous Presence	
Maximum Number of Concurrent Users:	40
(dependent upon number of licenses purchased)	
Collaboration Support	T.120, presentation mode, whiteboard, application sharing, Snapshot mode for sharing secure content, text chat, Annotation and highlighting tools
Office Suite Integration	Microsoft (Office Communicator, Windows Messenger, Live Communications Server, Live Meeting, Outlook, Active Directory) IBM Lotus (Sametime, Domino Directory)

VideoClick™ VIDEO ARCHIVING SYSTEM

Video Format	MPEG-1 Standard
Video Inputs:	Composite, S-Video
Audio Inputs	10k Ohm Unbalanced
Video Standard	NTSC or PAL
Video Frame Rate	150 kb/s – 5 kb/s
Audio Rate	32-224 kb/s
Frequency Response	20 Hz – 20 kHz +/- 0.25 dB
Sampling Frequency	32, 44.1, 48 KHz @ 20 bits per sample
Storage Capacity	Over 1,000 Hours
(at 1.5 Mbps Recording Rate, dependent upon other data stored on server)	

SERVER

Processor Type	Dual-Core Opteron (64 bit), 1.6 GHz
NIC	1000 Base T
Memory	2 Gbit
Storage (SCSI, Removable)	1.2 TB
Operating System	Microsoft Windows 2003

NETWORK

- Backplane Speed: 1 Gbps
- MAC Address Based Port-Level Security
- 802.1p QOS
- Supports IGMP
- 802.1q Trunking/ VLAN Support
- 802.3af Power over Ethernet
- 802.1d Spanning Tree
- PIX Firewall Software
- VPN Support -
 - Wireless Network: 802.11 a/b/g
 - Wireless Encryption WEP/WPA/FIPS 140-2
 - Wireless Antenna: whip antenna included (external antennas optional)



Clearly labeled jackfields, a graphic user interface, and easy-to-use instructions significantly reduce the any learning curve for users.



MPRI

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