Switch*plusIP*®

Advanced Multi-Interface Interoperable Communication System (AMICS)

Interoperability between agencies via existing telephony & radio technology via Voice over IP

The transportable Advanced Multi-Interface Interoperable Communication System (AMICS) provides a quickly established automated command centre. The AMICS allows personnel in deployed environments to use their existing communications equipment to quickly interoperate by connecting/dialling into the AMICS. Such flexibility provides government agencies with the ability to interoperate using existing communications equipment such as phones, radios and cellular equipment. Using DTMF to estabilish, terminate and conference calls, the AMICS provides a standalone Command and Control Centre. The C4i solution is further enhanced by its touchscreen based operator position, allowing real time C2 capabilities of all of your existing communications infrastructure.

The AMICS allows a variety of different communications sources to be automatically routed, patched, and conferenced to provide a truly interoperable communications solution. The system is software configured and provides fully redundant communications path with all key components duplicated. The product is based on C4i's world leading Switch*plusIP*® product. The VoIP solution provides seamless communications between IP, digital and analog communications devices.

The C4i AICS comes in a 10RU transit case and provides interoparability for the following interfaces via the rear demarcation panel:

Seamless telephony and radio integration

Access to 100s of radios

Interface Type	Qty
E&M interface, including RS232/422 for radios	8
GSM/CDMA	4
IP Connectivity—100 baseT RJ45 connectors	48 (24 spare)
FXS analog telephony	48
FXO analog telephony	16
E1/Primary Rate	4
IP Telephony (only logical ports, not physical)	128
IP Video Telephony (only logical ports, not physical)	48

Rack

Rack Open—Demarcation Panel

AMICS use in a typical system

Analogue Telephone

IP Handset

IP Handset

VOIP

Video Handset

PABX

VOIP

AMICS

GSM/CDMA Network

Radio

Radio

Radio

Radio
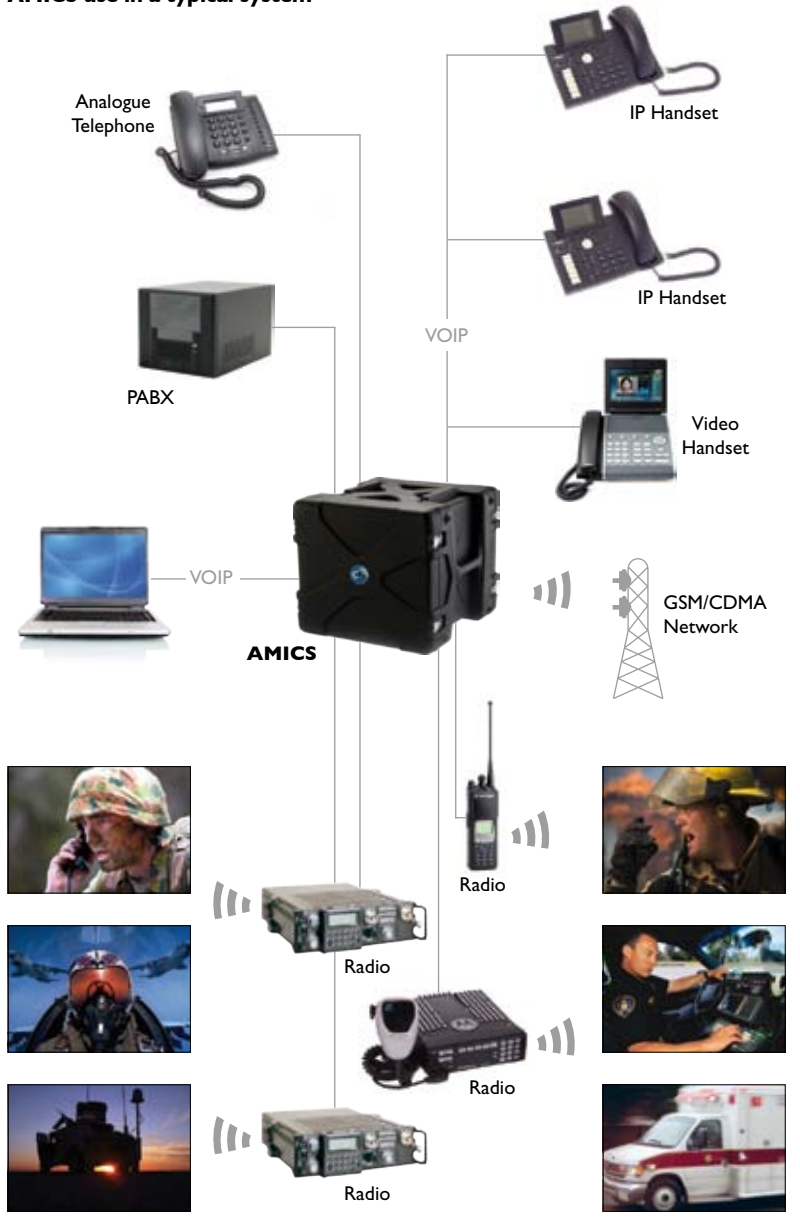
Specifications

Part Number	1414-001-001
Dimensions (H x W x D)	521 x 601 x 559 mm 20.5 x 23.75 x 22 in
Weight	50kg/110lbs (approx)

Power Input (configuration dependant)

DC	48Volts DC from FCBC FCBC powered from 230V AC or DC source

Connectivity

Ethernet	48 x IEEE 802.3 10/100 Base-T, RJ45 sockets
Radio Devices	8 x 26pin High density D-Sub connector, 1 per radio connection
GSM/CDMA	4 x cellular connections (requires SIM cards)
Analogue Telephony	48 x FXS analog telephony 16 x FXO analog telephony RJ11 connectors
Digital Telephony	4 x E1/Primary Rate
IP Telephony	128 x IP Telephony ports, SIP compliant extensions. Requires SIP compliant IP telephones
IP Video Telephony	48 x ports. Requires video capable handsets
Radio Audio	4-wire analog, transformer coupled, DC blocked, 0 dBm/600 Ω input/output
PTT	normally open contact, 150 mA/200V max
CODAN	5–25VDC optically isolated
Serial	RS232 @ standard rates up to 115.2 kbaud (1 per radio port) RS422/RS485 available with appropriate interconnection cabling
CODECS	G.729, G.711 A–law, G.711 μ–law, G.726, etc
Protocols	FoIP, SIP, VoIP, RTP

MIL-STDs compliant variant available

Simplifying communications