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 establish, 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 SwitchplusIP® product. The VoIP solution provides seamless communications between IP, digital and analog communications devices.

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

<table>
<thead>
<tr>
<th>Interface Type</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>E&amp;M interface, including RS232/422 for radios</td>
<td>8</td>
</tr>
<tr>
<td>GSM/CDMA</td>
<td>4</td>
</tr>
<tr>
<td>IP Connectivity—100 baseT RJ45 connectors</td>
<td>48  (24 spare)</td>
</tr>
<tr>
<td>FXS analog telephony</td>
<td>48</td>
</tr>
<tr>
<td>FXO analog telephony</td>
<td>16</td>
</tr>
<tr>
<td>E1/Primary Rate</td>
<td>4</td>
</tr>
<tr>
<td>IP Telephony (only logical ports, not physical)</td>
<td>128</td>
</tr>
<tr>
<td>IP Video Telephony (only logical ports, not physical)</td>
<td>48</td>
</tr>
</tbody>
</table>
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 (requires SIM cards)
- 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 ß-law, G.726, etc
- Protocols: FoIP, SIP, VoIP, RTP

MIL-STDs compliant variant available