SwitchplusIP®

Secure Operator Interface Unit



Powerful dedicated audio processing for advanced operators in multi-level security enclave environments

Simplifying secure operator audio

The SOIU is one of the Switch**plusIP**® core building blocks and is the communications hub of the Switch**plusIP**® Secure operator position. It provides the operator with dedicated DSP audio processing resources that enable efficient support for a range of audio equipment. It efficiently converts the audio from these devices to standards-based Voice over IP (VoIP) which can be streamed to any enabled compatible device via multi security enclaves. It also supports dual LAN interfaces in each enclave ensuring that mission critical audio always gets through to its destination.

The SOIU is used as part of a larger total C4i secure communications solution.

Simplifying connection of operator audio equipment

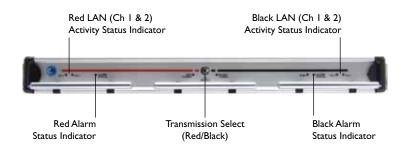
The SOIU greatly simplifies the operator's task when operating in environments requiring simultaneous access to multiple security domains.

The SOIU allows its operators to listen to audio from multiple domains in a single headset and, via a single touchscreen, control communications in both domains.











Specifications

Dimensions 435 x 44 x 422 mm (**W x H x D**) 17.13 x 1.73 x 16.61 in

Weight 5.9 kg / 13 lbs

Mounting IU high

Type Rack, shelf or proprietary mountable

(Installation specific. For full-width 19 inch rack, proprietary mounting

kit available)

Isolation NSTISSAM TEMPEST/1-92 &

NSTISSAM TEMPEST/2-95

Power Input (configuration dependant)

PoE 48 VDC from Ethernet Switch.

RED and BLACK sides powered individually from respective IP switches. Class 3 Powered Device (<13W each for RED and

BLACK side)

Connection Interfaces

DC Power PoE supplied from Ethernet Switch via

the Tx/Rx LAN pairs

Headset/ 2 x stereo headsets

Handset Connection via D-Sub 9 connectors **(non-isolated)** on rear of enclosure. One D-Sub 9

pin connector per headset

Black Aux. I x audio output for use with **Audio** speaker, voice recorder

(isolated) I x audio output for a "Line" input

Red Aux. 2 x audio outputs for use with

Red Aux. 2 x audio outputs for u Audio speaker, voice recorder (isolated)

PTT Switch $1 \times D$ -sub 9 pin connector for 2

separate Footswitch inputs:

dry closure

 Ethernet
 2 × IEEE 802.3 10/100 Base-T;

 (to Red
 1 × D-Sub 9 pin socket (2 × Ethernet)

System LAN) ports)

 Ethernet
 2 x IEEE 802.3 10/100 Base-T;

 (to Black
 1 x D-Sub 9 pin socket (2 x Ethernet)

System LAN) ports)

Ethernet | x | IEEE 802.3 | 10/100 Base-T; (to Black | x D-Sub 9 pin socket (1 x Ethernet

Control Port) port)

Software FoIP/VoIP, SIP & RTP

Protocols

Environmental

Operating -20°C to $+60^{\circ}\text{C}$ / -4°F to 140°F **Temperature** (MIL-STD 810F -501.4 & 502.4

(Op, Tablet))

Storage $-40^{\circ}\text{C to } +75^{\circ}\text{C} \ / \ -40^{\circ}\text{F to } \ 167^{\circ}\text{F}$ **Temperature** (MIL-STD 810F - 501.4 & 502.4

(Non-Op))

USA: C4i Inc

1840 Michael Faraday Drive, Suite 210, Reston VA 20190

Toll Free: I-877-COMMS12 (I-877-2666712) Tel: +I-703-668-0741 Fax: +I-703-668-0730

Australia: C4i Pty Ltd.

31 Market St, South Melbourne Victoria 3205 Tel: +61-3-9926-1100 Fax: +61-3-9696-1411



