### SwitchplusIP®

## **Operator Interface Unit (OIU)**



# Powerful dedicated audio processing for advanced operators

#### Simplifying operator audio

The OIU is one of the Switch**plusIP**® core building blocks and is the communications hub of the Switch**plusIP**® operator position. It provides the operator with dedicated DSP audio processing resources that enable efficient support for a diverse range of audio equipment including mono and stereo headsets, handsets with PTT, boom mics, monitor speakers etc. It efficiently converts the audio from these devices to standards-based Voice over IP (VoIP) which can be streamed to any compatible device via the LAN. It also supports dual LAN interfaces ensuring that mission critical audio always gets through to its destination.

The OIU is generally used as part of a larger total C4i communications solution however can be delivered on its own to be used as part of an open standards communications system utilizing SIP or RTP protocols controlled via the C4i API.

#### Simplifying connection of operator audio equipment

The OIU provides direct connection interfacing for a range of audio devices including:

- Dual headsets using either the industry standard dual 6 mm pin PJ7 for mono or 8-pin barrel for stereo audio programs:
- 2 mono or stereo headsets with in-line PTT:
- Handset with PTT:
- Monitor speaker/Voice recorder: and
- Foot PTT

Interface to voice recorders are provided via a dedicated analogue output or via an RTP stream over the LAN.

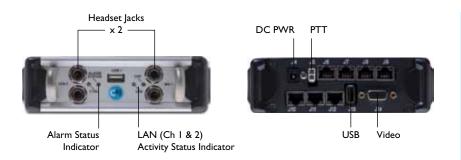
#### **Simplifying Configuration**

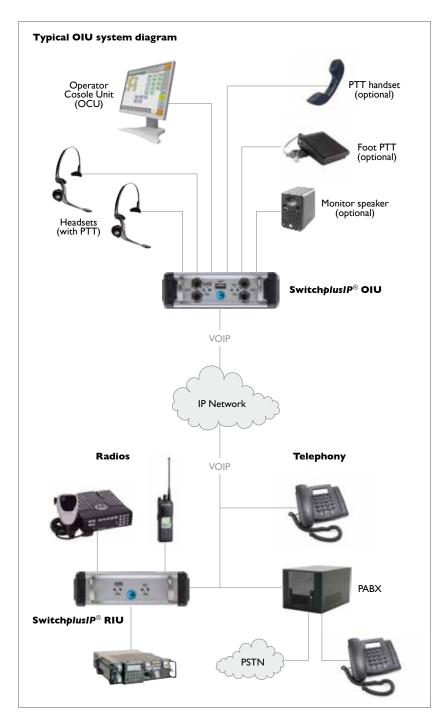
The OIU is extremely easy to configure. Using an intuitive web interface, users have access to the majority of the advanced facilities of the OIU.











#### **Specifications**

**Dimensions**  $148 \times 44 \times 370 \text{ mm}$  $(W \times H \times D)$  $5.75 \times 1.75 \times 14.5$  in

Weight 2.1 kg / 4.6 lbs (without ETX module)

2.6 kg / 5.7 lbs (with ETX module)

Mounting Type

Rack or shelf mountable; IU high

#### Power Input (configuration dependant)

PoE Not available when ETX module

installed in unit

48 VDC, 500 mA standard DC

configuration  $\mathbf{or}$ 

24-60 VDC extended DC range

configuration

AC 110-240 VAC;

Requires use of AC-DC Power Adapter (P/N: 685-888-040)

#### **Connection Interfaces**

**DC Power** Circular socket DCI0B

Headset/ 2 × stereo/mono headset/handset Handset (connectors provided on front & (non-isolated) rear panels for flexibility of system

integration)

I x mono Headset/Handset on rear

panel (RJ45)

Auxiliary I x mono audio for use with headset,

Audio handset, speaker, analog voice

(isolated)

PTT Switch I x Molex 2-pin connector;

dry closure

Ethernet (to 2 x IEEE 802.3 10/100 Base-T; **System LAN)** 2 × RJ45 socket (two Ethernet ports)

I × IEEE 802.3 10/100 Base-T; Ethernet (to

Operator PC) I x RJ45 socket

USB 2 × USB 2.0; USB A profile

RS232 @ standard rates up to Serial

19.2 kbaud (via RJ45 connector)

Video **RGBVGA** 

Software FoIP, SIP, VoIP, RTP

**Protocols** 

#### Environmental

**Operating** Temperature

-20°C to +60°C / -4°F to 140°F (MIL-STD 810G - 501.4 & 502.4

(Op, Tablet))

Storage Temperature

-40°C to +75°C / -40°F to 167°F (MIL-STD 810G - 501.4 & 502.4

(Non-Op))

**Vibration** (Vehicle/ Integrity) MIL-STD 810G - 514.5-C3 MIL-STD 810G - 514.6-C17

Transit Shock MIL-STD 810G - 516.5

EMI/EMC MIL-STD 461

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