

PROCOM™ Series

Operator Position Station (OPS)



The PROCOM series Operator Position Station (OPS) is a rugged, transportable Operator Position Station used with the Telegenix PROCOM series Voice Communication Switching Systems (VCSS). The OPS provides the capability for the operator to access various telephone trunks, intercom, radio channels and other communications infrastructure.

The OPS is designed for mounting in a low profile, sloped front desktop or 19" rack mount enclosure with a pre-wired speaker. A bezel can be provided for easy console mounting. A 2-wire telephone grade cable provides a communication link between the OPS and a PROCOM VCSS. The OPS provides audio volume control for a local loudspeaker and two independent headsets. The backlit LCD display with touchscreen is provided for system device selection and status display. The programmable display includes a telephone dial page with selective call signaling (either pulse dial or DTMF).

The display depicts incoming calls and channel selection status. LCD colors are user selectable. Circuit selectors provide two buttons per device so that there is independent control of device circuit TX, RX and Idle functions and audio destinations. Integral high brilliance LED backlighting can be provided for sunlit areas such as control towers.

A night vision mode (NVIS) option is available utilizing dedicated night vision LEDs for backlighting. Night vision operation is compliant to MIL-STD-3009, Class B, Type 1 and 2.

The OPS is both forward compatible to the PROCOM 2200 IP based Voice Communication Switching System and backwards compatible to existing PROCOM series VCSS.

Application *The PROCOM series OPS permits operator control of multiple radios, telephones, interphones and intercom from an integrated access panel for:*

- Air Traffic Control Communications, both large and small fixed base towers
- Mobile Tactical Control Communications
- Command Center Communications
- Marine Traffic Control Communications
- Communications Training and Simulation
- Emergency Services Dispatch – Fire, Police, Disaster Communication
- Hospital to EMS Technician Interoperability

Features

- Provides access to Intercom, Telephone, Radio, P.A. and other devices.
- All digital audio processing
- Full Non-Blocking and conferencing capabilities
- Local loudspeaker with volume control
- Individual volume control for two headsets
- LCD screen displays channel status in various colors. Hi-Bright available
- Digital multi-channel link to VCSS
- Independent record port
- DC source powered 24, 28 or 48 VDC
- Built to meet MIL-STD-461 EMI/RFI standards
- Ruggedized per MIL-STD-810
- Environments and Type IV Mobility hard mounting
- Night vision (NVIS) operation compliant to MIL-STD-3009, Class B, Type 1 and 2

When reliable communication matters, there is no way around a powerful digital voice communication switch.



TELEGENIX

A Leader in Voice Communication Switching Systems

71 Indel Avenue
Rancocas, NJ 08073
Toll Free: 800.424.5220
Phone: 609.265.3910
Fax: 609.265.3920
sales@telegenix.com
telegenix.com

Audio Signals

- Frequency Response > Less than +1, -3 dB, 300 to 3400 Hz
- Distortion > Less than 2% THD, 300-3400 Hz
- Signal to noise ratio > More than 50dB at 1020 Hz
- Idle channel noise ratio > Less than -60dBm at 3000 Hz
- Crosstalk Isolation > More than 90dB between channels, 100 to 10k Hz
- Recording > 600 ohm interface to local recorder. E1 channel to digital recorders available to connected switch node

- Input Level** > Microphone: Nominal 0.45 Vp-p dynamic or Electret (50-150 ohms)
Auxiliary: 600 ohm balanced
Nominal -10 dBm (-20 to 0 dBm)

- Output Level** > Headphone: 150, 300, 600 ohm
Nominal -10 dBm (Off to 0 dBm)
Loudspeaker: Off to Greater than 3 Watts
Auxiliary: 600 ohm balanced
Nominal -10dBm (-20 to 0 dBm)

Environmental

- Temperature > 0°C to +40°C (operating)
-57°C to +85°C (non-operating)
- Altitude > 0 to +9,200 feet (operating)
0 to +45,000 feet (non-operating)
- Humidity > 5% to 95% (non-condensing)
- Transport > Designed for Type IV Mobility

Dependability

- MTBF Critical > Better than 100k hours
- Availability > >.99999
- MTTR > <10 minutes
- Other > 99% BIT failure detection

Command Inputs

- Push-buttons > Sealed touchscreen provides contacts for twenty-four 2- button circuit selectors, plus 10 function buttons per page.
PROCOM series OPS can have multiple pages of circuit selectors or special function buttons.

Display Indications

- LCD > The full color 12.1" COTS display provides for user selection of all colors and indicators. Button, caption and message text can be coded in user selected language and character set.

Communications

- ISDN > Synchronous Full Duplex, 160 kbps, BRI 2B+D
- Port BRI > (2 voice & 1 data channels)
- Physical Pair > Up to 18,000 ft. (5km) using a single pair of 22 AWG copper wire

Power Requirement

- Source > +22.5 to +28.8 VDC (per MIL-STD-1275)
The OPS can be powered locally from an external DC power supply or remotely from the VCSS when the cable run is less than 50 ft. (15 meters)
- Power > 12 watts (nominal)
20 Watts (high Bright)

Accessories

- > Various headsets, handsets, footswitches, and microphones adaptable using Dual Jack Units.
- > VoIP using Gateway Adapter units.

Dimensions & Weight

- Desktop > 9.06"W x 11.62"H x 3.65"D
295.0 x 230.1 x 92.7 mm
- Console > 10.5"W x 13.1"H x 3.93"D
332.71 x 266.7 x 99.8 mm
- Rackmount > 10.5"W x 19H x 3.96"D
482.6 x 266.7 x 100.61 mm

Dependable voice communications are essential in national defense and public safety. Therefore, it's not surprising that PROCOM is the supplier of choice for a wide variety of vital military and civilian applications.

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