

MESHnet® V6 TCX-300

Single-user remote Tactical Crew Extension to the TCS-300



Rugged, End-to-End Connectivity

The TCX-300 provides a rugged single user extension of a TCS-300 radio port to support inter-vehicle intercom circuits via Two-Wire Intercom Network (TWIN).

Rotary control allows the user to select between intercom, TWIN, radio nets and voice override as active services.

Platform audio alarms can be sourced from an external audio source or locally generated contact closure.

Features

- Separate controls to independently adjust volume of left and right audio channels
- Inter-vehicle intercom circuits via Two-Wire Intercom Network (TWIN)
- Override to enable operator control over other vehicle communications
- Platform audio alarms mixed into the intercom channel and distributed to all users

Technical Information

Hardware Specifications:

- External audio input/output port for TWIN and external alarm connections
- Headset port (compatible with passive and active headsets)
- TCS interface port
 - Provides radio and intercom access over the LAN, as well as power for the TCX-300 and connected active ancillaries

Audio:

- Input-to-output frequency response: 300 to 3400 Hz
- Input-to-output Signal-to-Noise performance > 48 dB
- Input-to-output harmonic distortion <1%

Physical Characteristics:

- Height 142 mm (5.59")
- Width 152 mm (5.97")
- Depth 89 mm (3.50")
- Weight 1.06 kg (>2.35 lbs)

Environmental Specifications:

- -40°C to +63°C (-40°F to +145°F) operating
- -57°C to +71°C (-71°F to +160°F) storage
- MIL-STD-810D tested for vibration (wheeled and tracked), transit drop, shock, salt fog, sand and dust, fluid contamination, NBC decontamination, immersion, fungus and altitude
- Electromagnetic Effects: MIL-STD-461E compliance for Electrostatic Discharge (ESD), TREE and TEMPEST

Power:

- 24 VDC (regulated power from TCS-300)
- 2.4 Watts (excluding audio ancillaries)

Reliability:

- Mean Time Between Failure (MTBF) greater than 15,000 hours
- Mean Time To Repair (MTTR) less than 30 minutes

Best-of-Breed Confidence

General Dynamics is a distinguished worldwide provider of ruggedized electronic equipment designed and qualified to withstand operation in the most extreme tactical environments. Our MESHnet® Family of products is field proven and trusted globally for robustness and reliability.

General Dynamics products are based on proven, configurable modules and are available in standard or custom configurations. This product sheet describes many of the options for this product family. For availability and details of specific configurations or for custom requirements, please contact General Dynamics.