

Digital Order Wire Voice Module for Trio D and E Series Data Radios

Product Information and Features

Trio DataCom's Digital Order Wire Voice Module (EDOVM) provides for the transmission of analog voice over a digital data radio network.

The EDOVM module converts analog voice to a digital data stream, and back to voice again at the receiving end. The entire unit is built into a plastic lightweight housing small enough to slip into a pocket, or clip onto a belt.



Description

The EDOVM is intended to provide occasional voice communication capability over Trio's all digital packet data radio communication systems. It eliminates the need for any analogue (voice) interface, or special voice communication facilities on the network.

Digital signal processing and a **dedicated packetisation algorithm** are used to minimise the required data bandwidth and optimise the transmission of the digitised voice signals.

In many cases it is possible, by virtue of Trio's unique **Multistream™** technology, to multiplex the digital voice stream together with the user data on the same radio channel.

Although intended for use on Trio data radio systems, where error protection is added to the digitised voice data packets, the standard asynchronous 9600 bps RS-232 interface and the packet data transport protocol make it possible to also transmit voice over non-radio based data systems.

The EDOVM features an adjustable volume control and operates in half duplex mode with an audio quality that is equivalent to that obtained from two way mobile radio type communication systems.

The Trio EDOVM uses a compact industry standard handheld speaker-microphone with a Press-To-Talk (PTT) switch that plugs into the housing.

Specifications

Housing	High strength plastic enclosure with belt clip
Size	110mm x 70mm 25mm
Power supply	13.8 Vdc (10 to 16Vdc)
Current consumption	<150mA max. (40mA typical)
Data Protocol	SLIP
CODEC	CELP 2000 bps plus packetisation overhead
Data interface	RS232 DTE - RJ45 (std. cable supplied)
Data protocol	Asynchronous N81 @ 9600 bps
Audio interface	2.5mm/3.5mm unbalanced
Audio device	Hand-held speaker microphone with PTT switch
Audio mode	Half duplex (PTT Controlled)



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Performance data indicates typical values related to the described unit.



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