



Transceivers

Small size, Lightweight, Great Performance

IMC offers a line of flight-proven, synthesized, video & telemetry digital transceivers that operate either in full duplex (different frequencies for upstream and downstream) or half duplex (same frequency for upstream and downstream using TDD or TDMA methods). The transceivers are small size, lightweight and have minimal heat dissipation. All these possibilities make them suitable for target drones, UAV's, robots, rockets and aircrafts. Several input parameters such as frequency, IF frequency, bit rate and output power are easily configured before the mission using a user-friendly application provided with the transceiver.

IMC's transceivers are designed for MIL-SPEC environmental standards and MIL-STD-461C EMI standards. The transceivers include a signal-processing module, which is needed in order to achieve best performance along with simple integration.



Will Connect You

Capability Range

Specification	Range
Frequency	UHF, L ,S ,C Band
Operation method	Full duplex / Half duplex (TDD or TDMA)
Functionality Options	AES Encryption, FEC (Forward Error Correction)
Modulation type	FM, GMSK, BPSK, QPSK
Power	Up to 40W



Optional module families



Video & Telemetry Transceiver

IVT-DIG is a small, fully programmable TDMA Transceiver. The unit supports L, S or C frequency bands with an output power of up to 40W. It is a low cost, lightweight, rugged, single unit, wideband data link. It includes an analog modem, RF electronics, FEC and option for encryption all in one system. The IVT-DIG delivers a real-time, IP based data. It has a built in power amplifier that can work with burst or CW modes.



Miniature Transceiver

The IVT-DIG-M is a miniature, fully programmable TDD Transceiver. (Can also be programmed for full duplex) The unit supports L, S or C frequency bands with an output power of up to 2W. It is a low cost, lightweight, rugged, single unit, wideband data link. It includes a digital modem, RF electronics, video compression, FEC and option for encryption all in one system. The IVT-DIG-M delivers real-time, IP based, full motion video & telemetry.