



Receivers

Small size, Lightweight, Great Performance

IMC designs & develops custom integrated video, telemetry and tracking digital receivers for telemetry, airborne, ground, space and marine communication applications. The receivers are small sized, light weight and have minimal heat dissipation. The RF section incorporates switches, filters, amplifiers, couplers and equalizers to create amplitude matched outputs. The unit's configuration can be programmed during manufacturing or re-programmed by using a GUI (user-friendly application) that is provided with the receiver. Synthesized frequency control provides flexibility in operating platforms where frequency assignments may change from mission to mission. The receivers include signal processing and bit-synchronizer, using FPGA for achieving the best performance while assuring simple integration. IMC receivers are designed for MIL-SPEC environmental standards and MIL-STD-461C EMI standards.



Will Connect You



Capability Range

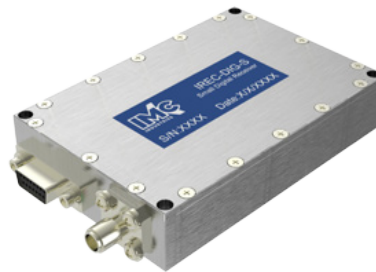
Specification	Range
Frequency	100Mhz – 8Ghz (UHF, L,S,C Band)
Functionality options	Video & Data, FEC (Forward Error Correction), Anti-jamming, Encryption, internal bit synchronizer, digital filter
Bit rate	Up to 20Mbps
Sensitivity	105db for a Bit rate of 100kbps
Modulation	FM, GMSK, BPSK, QPSK

Optional module families



Ground terminal video & telemetry receiver drawers

The IREC-RX family is a family of Video and/or Telemetry 1RU S-Band receivers and optional video decoder. The internal receiver is designed for video and telemetry ground station applications. Available in L, S and C band and a bit rate of up to 20Mbps



Small digital telemetry receiver

The IREC-DIG-S family is a family of small sized, light weight telemetry receivers that are designed for airborne and space borne applications. Synthesized frequency control over 200 MHz, bit rate and bandwidth are easily selectable. Maximum input up to 20 Mbps. The unit is available in L, S and C band. ~200gr 77x51x16mm



Miniature digital telemetry receiver

The IREC-DIG-M family is a family of miniature sized light weight telemetry receivers designed for airborne & UAV telemetry applications. Available in L, S and C band and a bit rate of up to 2Mbps. ~65gr, 68x49x14mm