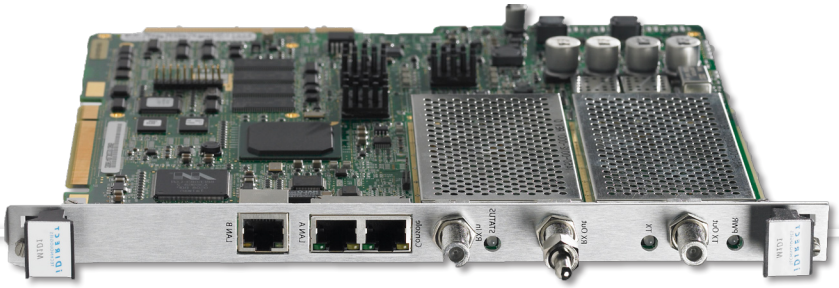
iNFINITI M1D1-T-IND
Line Card



The iNFINITI M1D1-T-IND line card is designed to meet the guidelines of MIL-STD 810F for operation in harsh environments. Designed for use with the Series 12200 Universal Hub (Industrial 4-slot) chassis, the line card is suited for supporting secure voice, data and video communication links for mission-critical military broadband applications requiring the highest security standards such as TRANSEC and FIPS-140-2 certification. The line card features one modulator and one demodulator.

Network Configuration

Modem	One Modulator (Transmit one downstream carrier) One Demodulator (Receive one upstream carrier)
Symbol Rates	Downstream (TDM): Up to 15 Msps Upstream (D-TDMA): Up to 7.5 Msps
Modulation	Downstream (TDM): BPSK, QPSK, 8PSK Upstream (D-TDMA): BPSK, QPSK, 8PSK
Max Info Rate	Downstream (TDM): Up to 18 Mbps Upstream (D-TDMA): Up to 11.8 Mbps
Max IP Data Rate	Downstream (TDM): Up to 17.6 Mbps (when using QPSK, 0.879FEC) Upstream (D-TDMA): Up to 10.8 Mbps (when using QPSK, 0.793FEC, unrestricted NMS)
FEC	Downstream: Turbo BPSK .495–.879, QPSK .495–.879, 8PSK .793–.879 Upstream: Turbo BPSK .431-.793, QPSK .533-.793, 8PSK .660
Interoperability	Designed for use with the Series 12200 Universal Hub (Industrial 4-slot) chassis Requires iNFINITI Series 7350 and 8350 remote for TRANSEC and FIPS-140-2 certification

Interfaces

SatCom Interfaces	TxIF: Type-F, 950–1700 MHz, +7dBm/-35dBm RxIF: Type-F, 950-1700 MHz, -5dBm/-65dBm
Data Interfaces	LAN: RJ-45, two 10/100Base-T RS-232: RJ45 (Console connection)
Security	TRANSEC with FIPS 140-2 certification
10 MHz Reference	10 MHz reference to BUC and LNB

Mechanical/Environmental

Redundancy	Software Controlled, Hot-swappable
Weight	~1.2 lbs (0.6 Kg)
Operating Temperature	-30° to 60°C (-22° to +140°F), tested in accordance with MIL-STD 810F
Operating Humidity	5 to 95% non-condensing, tested in accordance with MIL-STD 810F
Operating Altitude	Up to 10,000 feet (< 3,048 meters), tested in accordance with MIL-STD 810F
Operating Shock/Vibration	Tested in accordance with MIL-STD 810F
Radio Standards (System Level)	EN 301-428 v1.3.1 — Ku-Band System Level Specification EN 301-443 v1.3.1 — C-Band System Level Specification
Safety Standards (System Level)	Complies with IEC 60950, EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1-03
Emission Standard (System Level)	Complies with EN 55022 Class A, FCC Part 15 Class A, CISPR 22 Class A, EN 61000-3-2, EN 61000-3-3
EMC/Immunity Standard (System Level)	Complies with EN 55024, EN 301-489-1, EN 301-489-12, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11
Certification	FCC, CE, and RoHS Compliant