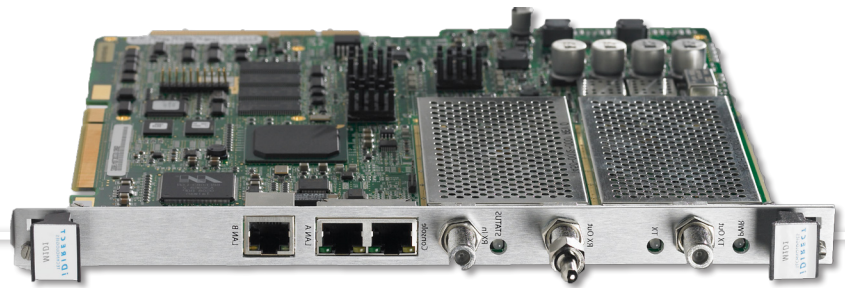


iNFINITI M1D1-T-IND Line Card



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 and supports IP data rates of up to 20 Mbps on the outbound and up to 10 Mbps on the inbound.

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 Msps
Modulation	Downstream (TDM): BPSK, QPSK, 8PSK Upstream (D-TDMA): BPSK, QPSK, 8PSK
IP Data Rates	Downstream (TDM): Up to 20 Mbps (when using QPSK, 0.879FEC) Upstream (D-TDMA): Up to 10 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

