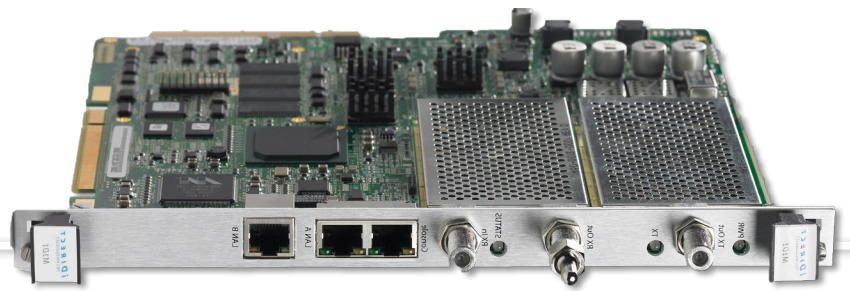


## iNFINITI M1D1-IND Line Card



The iNFINITI M1D1-IND line card is designed to meet the guidelines of MIL-STD 810F for operation and storage in harsh environments. Designed for use with the Series 12200 Universal Hub (Industrial 4-slot) chassis, the line card is ideally suited for broadband applications and comms-on-the-pause (COTP) for military, first responders, disaster recovery, and other field operations. The modulator/demodulator line card supports IP data rates of up to 20 Mbps on the outbound and up to 10 Mbps on the inbound.

### Network Configuration

<b>Modem</b>	One Modulator (Transmit one downstream carrier) One Demodulator (Receive one upstream carrier)
<b>Symbol Rates</b>	Downstream (TDM): Up to 15 Msps Upstream (D-TDMA): Up to 7 Msps
<b>Modulation</b>	Downstream (TDM): BPSK, QPSK, 8PSK Upstream (D-TDMA): BPSK, QPSK, 8PSK
<b>IP Data Rates</b>	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)
<b>FEC</b>	Downstream: Turbo BPSK .495-.879, QPSK .495-.879, 8PSK .793-.879 Upstream: Turbo BPSK .431-.793, QPSK .533-.793, 8PSK .660
<b>Interoperability</b>	Designed for use with the Series 12200 Universal Hub (Industrial 4-slot) chassis Compatible with iNFINITI Series remotes

### Interfaces

<b>SatCom Interfaces</b>	TxIF: Type-F, 950-1700 MHz, +7dBm/-35dBm RxIF: Type-F, 950-1700 MHz, -5dBm/-65dBm
<b>Data Interfaces</b>	LAN: RJ-45, two 10/100Base-T RS-232: RJ45 (Console connection)
<b>10 MHz Reference</b>	10 MHz reference to BUC and LNB

### Mechanical/Environmental

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

