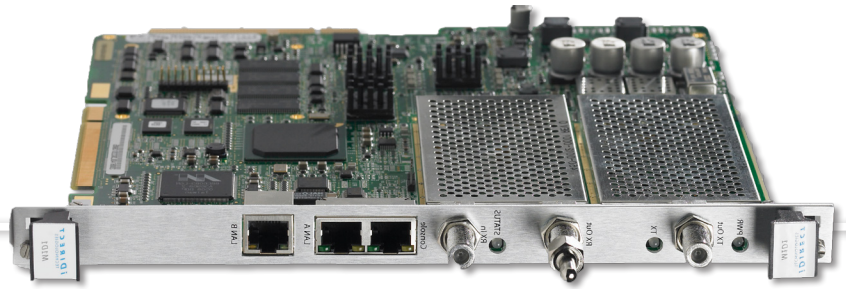


iNFINITI M1D1 Line Card



The iNFINITI M1D1 line card features one modulator and one demodulator and fits in any new or existing universal hub chassis, making network expansion easy. The line card can reach IP data rates of up to 20 Mbps on the outbound and up to 10.8 Mbps on the inbound, based on TDM/deterministic MF-TDMA. It is ideally suited for broadband applications such as Internet and VPN access, along with real-time VoIP and videoconferencing.

Network Configuration

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|--------------------------|---|
| 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 Rates | Downstream (TDM): Up to 17.6 Mbps (when using QPSK, 0.879 FEC) Upstream (D-TDMA): Up to 10.8 Mbps (when using QPSK, 0.793 FEC, 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 | Compatible with Series 15000 Universal Hub (5IF/20Slot) chassis and Series 12100 Universal Hub (Commercial 4-slot) chassis occupying one chassis slot |

Interfaces

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

Mechanical/Environmental

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|---|--|
| Redundancy | Software Controlled, Hot-swappable |
| Weight | ~1.2 lbs (0.6 Kg) |
| Operating Temperature | 0 to 45°C (32° to 113°F) |
| 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 |