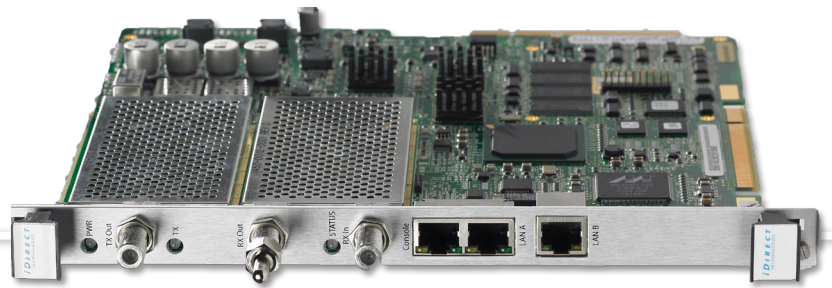


## iNFINITI M1D1-iSCPC Line Card



The iNFINITI M1D1-iSCPC line card features one modulator and one demodulator and fits in any new or existing universal hub chassis and iSCPC concentrator. Shared TDMA networks can be easily complimented and expanded with iSCPC links where sites require a dedicated connectivity. The line card can reach IP data rates of up to 16 Mbps in each direction.

### Network Configuration

<b>Modem</b>	One Modulator (Transmit one downstream carrier) One Demodulator (Receive one upstream carrier)
<b>Symbol Rates</b>	Downstream (SCPC): Up to 15 Msps Upstream (SCPC): Up to 15 Msps
<b>Modulation</b>	BPSK, QPSK, 8PSK
<b>IP Data Rates</b>	Downstream (SCPC): Up to 16 Mbps* (using QPSK, 0.879 FEC) Upstream (SCPC): Up to 16 Mbps* (using QPSK, 0.879 FEC) *Maximum combined (bidirectional) IP data rate is 20 Mbps
<b>FEC</b>	Downstream and Upstream Turbo BPSK .495–.879, QPSK .495–.879, 8PSK .793–.879
<b>Interoperability</b>	Compatible with Series 15000 Universal Hub (51F/20Slot) chassis, Series 12100 Universal Hub (Commercial 4-slot) chassis, and iSCPC concentrator Compatible with iNFINITI Series 5000 and 7000 remotes

### Interfaces

<b>SatCom Interfaces</b>	TxIF: Type-F, 950–1700 MHz, Composite Power +7dBm/-35dBm RxIF: Type-F, 950-1700 MHz, Composite Power -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>	0 to 45°C (32° to 113°F)
<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