

iNFINITI 8000 SERIES SATELLITE ROUTERS SPECIFICATIONS



Everything you need to deliver reliable, high quality broadband connectivity for the most demanding user requirements

Developed to meet the most rigorous user requirements for both mobility and security, the iNFINITI 8000 Series Satellite Routers provide fast, reliable, secure, quality of service enabled connections for Communications on the Move (COTM).

Now with the integration of the latest TDMA spread spectrum technology, along with advanced FIPS-certified*** TRANSEC security and advanced QoS functionality, the 8000 series provides a new level of IP broadband capabilities with maximum flexibility.

Greater Bandwidth Optimization and Efficiencies

- Leading spread spectrum technology enables use of ultra small (sub 1m) and phased-array antennas on aircraft, trains, maritime vessels, and land based vehicles
- Fully enabled for iDirect's Global Network Management System (NMS) and automatic beam switching technology, with geomapping, allowing for a seamless network with truly global coverage while maintaining a fixed IP address at the remote
- Increased bandwidth management flexibility with advanced QoS features (Group QoS) allowing operators to segregate bandwidth by groups of remotes and by applications

Maximum Flexibility

- Built-in options for Star, Star/Mesh, iSCPC, and MF-TDMA
- Integrated TCP and HTTP acceleration
- Supports a wide range of modulations and FECs for maximum flexibility on bandwidth optimization

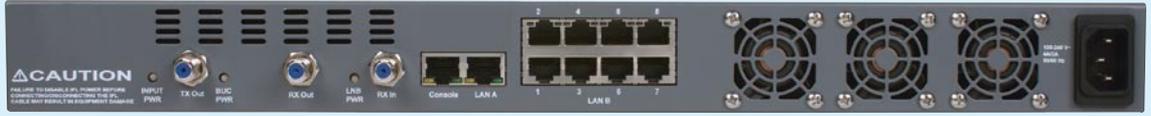
Highly Secure Communications

- Embedded AES encryption
- Advanced, high security TRANSEC with FIPS 140-2 certification***
- X.509 digital certificates encryption
- Automatic over the air key exchange

FEATURES

- Spread spectrum wave-form technology supports very small antennas
- Unique FIPS 140-2 certified*** TRANSEC security with AES encryption
- Flexible networking configurations
- Fully optimized for mobile broadband communications
- High bandwidth management flexibility with Group QoS

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SATELLITE ROUTERS
SPECIFICATIONS



MODEL 8350

NETWORK CONFIGURATION

- Network Topology
- Symbol Rates SS (Spread Spectrum)
- Symbol Rates (Standard)
- Modulation
- Spreading Factors
- IP Data Rates (SS)
- IP Data Rates (Standard)

Star (MF-TDMA), iSCPC, and Mesh**

Downstream: 64 ksps up to 7.5 Msps*
 Upstream: 64 ksps up to 3.75 Msps*

Downstream: 64 ksps up to 11.5 Msps
 Upstream: 64 ksps up to 2.875 Msps

Downstream: BPSK (SS), BPSK, QPSK, 8PSK
 Upstream: BPSK (SS), BPSK, QPSK, 8PSK

Supports Spreading Factors of 2, 4, 8** and 16**

Downstream: Up to 6.5 Mbps
 Upstream: Up to 2.0 Mbps

Downstream: Up to 18 Mbps
 Upstream: Up to 4.2 Mbps

FEC
 Eb/No

For full list please refer to the latest iDirect Link Budget Analysis Guide
 As low as -1.6 dB with Spread Spectrum
 For full list please refer to the latest iDirect Link Budget Analysis Guide

Hub Requirements

M1D1-T line card for TRANSEC or M1D1-TSS line card supporting both TRANSEC & Spread spectrum, Requires iDS 8.0 software

INTERFACES

- SatCom Interfaces
- Available BUC Power (IFL)
- Available LNB Power (IFL)
- 10 Mhz Reference
- Data Interfaces
- Protocols Supported
- Traffic Engineering
- Other Features
- Security

TxIF: Type-F, 950–1700 MHz, Composite Power +7dBm/-35dBm
 RxIF: Type-F, 950–1700 MHz, Composite Power -5dBm/-65dBm
 TVRO: Type-F, 950–1700 MHz

+24V
 +19.5V (Nominal)

Software controllable on Tx and Rx IF ports

LAN: Single 10/100 and 8-Port 10/100 Switch, 802.1q VLAN
 RS-232: RJ45 (for GPS or Console connection or Antenna Pointing)

TCP, UDP, ICMP, IGMP, RIP Ver2, BGP**, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, OpenAMIP, cRTP and GRE

Group QoS, CBWFQ, Strict priority queuing

Built-in Automatic Uplink Power, Frequency and Timing Control

AES Link Encryption, TRANSEC with FIPS 140-2 certification,***
 X.509 digital certificates encryption, Over the air key exchange

MECHANICAL/ENVIRONMENTAL

- Size
- Weight
- Operating Temperature
- Humidity
- Input Voltage
- Altitude
- Vibration
- Operational Shock
- Safety Standards
- Emission Standard
- Immunity Standard

W 17.5 in x D 10.25 in x H 1.75 in
 (W 44.45 cm x D 26.04 cm x H 4.45 cm)

12 lbs (Including Power Supply) [5.44 Kg]

-20° to +60° C (-4° to +140° F) at Sea Level when tested in accordance with Method 501.4 Procedure II and Method 502.4 Procedure II of MIL STD 810F

Max 92% non-condensing humidity when tested in accordance with Method 507.4 of MIL STD 810F

100–250 VAC Universal Input, 47–63 Hz, 4A Max @ 100VAC, power factor correction complies with EN 61000-3-2 and EN 61000-3-3

Operating: up to 10,000 feet (3048m); Storage: up to 30,000 feet (9144m)

The remote will remain operational with no errors of any type when subjected to the operational vibration profile specified in Figure 514.5C-3 and the survival vibration profile specified in Figure 514.5C-2 of MIL STD 810F and tested in accordance with Method 514.5 Procedure I of MIL STD 810F.

The remote will remain operational when subjected to the operational shock profile specified in Figure 516.5-8 of MIL STD 810F when tested in accordance with Method 516.5 Procedure I of MIL STD 810F.

Complies with IEC 60950, EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1-03

Complies with EN 61000-3-2, EN 61000-3-3, EN 55022 class B, FCC Part 15 class B, CISPR 22 class B

Complies with EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-11

* Rates vary based on spreading factor
 ** Future release
 *** Pending