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# **iNFINITI 5000 Series Satellite Router**

### Delivering Reliable and Fast Enterprise Class IP Broadband Connectivity

Developed specifically to support the business critical applications of enterprise customers, the iNFINITI 5000 Series combines a flexible networking platform to deploy tailored topologies and configurations to support end users' most specific needs.

The 5000 series is a satellite router designed for easy deployment, integrating a satellite modem, IP router, TCP acceleration, and advanced QoS and prioritization capabilities.

The iNFINITI 5000 uses the high performance TDM on the outbound and iDirect's patented, deterministic MF-TDMA on the inbound, delivering speeds up to 20 Mbps on the outbound and up to 6.5 Mbps on the inbound.

#### **High Flexibility**

Supporting multiple topologies such as star, mesh, and hybrid networks as well as point-to-point SCPC enable maximum flexibility when it comes to the integration of a variety of applications into a single platform. Optional AES encryption will add strong data encryption to customize networks to the most demanding corporate requirements.

#### Superior Quality of Service

Flexible Quality of Service and prioritization capabilities allow network operators to not only prioritize traffic and applications over their networks but with iDirect's state-of-the-art Group QoS they can determine traffic prioritization across multiple applications, multiple remotes and multiple sub-networks simultaneously, adding a new level of granularity for easier management of the most complex SLA's and subscriber services.

Support for a rich set of IP protocols and features such as TCP, UDP, multicasting, NAT, VLAN tagging and DHCP guarantee compatibility with a wide range of applications when providing corporate network extensions.

### **Bandwidth Efficiencies**

Supporting a wide variety of the most advanced turbo product codes (TPC) FECs, the 5000 series provides more flexibility for network design and optimization. Features such as TCP and HTTP acceleration and local DNS caching increase throughput performance, and maximize the user's experience.

### Simplicity

Operating with all iDirect hubs, the iNFINITI 5000 Series can be easily configured, monitored and controlled through the iVantage™ Network Management System, a complete suite of software-based tools for configuring, monitoring and controlling satellite networks from one location.



#### Features



## iNFINITI 5000 Series Satellite Router Model 5100, 5150, 5300, 5350



#### **Network Configuration**

**Network Topology** | Star (TDM with Determinsitic MF-TDMA) — Model 5100/5150

Star/Mesh (TDM with Deterministic MF-TDMA) — Model 5300/5350

SCPC (IP Only) — Model 5100/5150/5300/5350

**Modulation** Downstream: QPSK, BPSK, 8PSK

Upstream: QPSK, BPSK, 8PSK

Maximum Rates Supported Downstream (TDM) Upstream (D-TDMA)

Symbol rate Up to 15 Msps Up to 7 Msps (BPSK, .793 FEC) (QPSK, .793 FEC, unlimited NMS)

Info rate Up to 21 Mbps Up to 11 Mbps (QPSK, .879 FEC) (QPSK, .793 FEC, unlimited NMS)

IP data rate Up to 20 Mbps Up to 6.5 Mbps

(QPSK, .879 FEC) (QPSK, .793 FEC, unlimited NMS)

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**Interfaces** 

**SatCom Interfaces** TxIF: Type-F, 950–1700 MHz, Composite Power +7dBm / -35dBm

RxIF: Type-F, 950–1700 MHz, Composite Power OdBm / -65dBm

TVRO: Type-F, 950-1700 MHz

Available BUC Power (IFL) +24V (Supports 4W KU or 5W C-band) +48V optional (limited to 120W, supports 4W Ku- and 5W C-band)

Available LNB Power (IFL) +19.5V (Nominal)

10 MHz Reference Available

**Data Interfaces** LAN: Single 10/100 and 8-Port 10/100 Switch, 802.1q VLAN

RS-232: RJ45 (for GPS or Console connection or Antenna Pointing)

Protocols Supported TCP, UDP, ICMP, IGMP, RIP Ver2, BGP\* Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, cRTP

**Security** 256-bit AES Encryption (Optional — Model 5150 and 5350)

Traffic Engineering | QoS (CBWFQ), Minimum CIR, CIR (Static and Dynamic), Rate Limiting, Bandwidth on Demand, QoS

(Priority Queuing and CBWFQ), Group QoS, Application Based QOS

**Other Features** | Built-in Automatic Uplink Power, Frequency and Timing Control, Authentication, Antenna Control Interface

(OpenAMIP)

Mechanical/Environmental

**Size** W 11.5 in x D 9.675 in x H 2 in

 $(W 28.9 cm \times D 24.1 cm \times H 5.1 cm)$ 

**Weight** | 3.75 pounds (1.7 Kg)

**Rack Mounting** 19" Rack Mountable, 19" Wide x 3.44" High (2U) x 11.5" Deep

Operating Temperature 0° to 50°C (+32° to +122°F) at Sea Level

0° to 45°C (+32° to +113°F) at 10000 Feet

Input Voltage | 100-240 VAC Universal Input, 50–60 Hz, 2A Max at 100VAC

**Radio Standards** EN 301-428 v1.3.1 — Ku-Band System Level Specification EN 301-443 v1.3.1 — C-Band System Level Specification

Elv 301 113 v1.3.1 C band System Level Specimeation

**Safety Standards** | Complies with IEC 60950, EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1-03

Emission Standard Complies with EN 55022 Class B, FCC Part 15 Class B, CISPR 22 Class B, EN 61000-3-2, EN 61000-3-3

EMC/Immunity Standard | 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

\*Future release