

# 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 SLAs 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

- ◆ Star topology, Mesh and SCPC
- ◆ High data rates 20 Mbps outbound, 6.5 Mbps return
- ◆ Security and encryption
- ◆ Built-in TCP and HTTP acceleration
- ◆ Advanced QoS and prioritization
- ◆ MF-TDMA return channel achieving 98% payload efficiency
- ◆ Automatic End-to-End Uplink Power Control for higher network availability

**BUY NOW**

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



**Network Configuration**

<b>Network Topology</b>	Star (TDM with Deterministic MF-TDMA) — Model 5100/5150 Star/Mesh (TDM with Deterministic MF-TDMA) — Model 5300/5350 SCPC (IP Only) — Model 5100/5150/5300/5350		
<b>Modulation</b>	Downstream: QPSK, BPSK, 8PSK Upstream: QPSK, BPSK, 8PSK		
<b>Maximum Rates Supported</b>	<b>Max Rate</b>	Downstream (TDM)	Upstream (D-TDMA)
	<b>Symbol rate</b>	Up to 15 Msps (BPSK, .793 FEC)	Up to 7 Msps (QPSK, .793 FEC, unlimited NMS)
	<b>Info rate</b>	Up to 21 Mbps (QPSK, .879 FEC)	Up to 11 Mbps (QPSK, .793 FEC, unlimited NMS)
	<b>IP data rate</b>	Up to 20 Mbps (QPSK, .879 FEC)	Up to 6.5 Mbps (QPSK, .793 FEC, unlimited NMS)
<b>E<sub>b</sub>/N<sub>0</sub></b>	For full list, please refer to the latest iDirect Link Budget Analysis Guide		

**Interfaces**

<b>SatCom Interfaces</b>	TxIF: Type-F, 950–1700 MHz, Composite Power +7dBm / -35dBm RxIF: Type-F, 950–1700 MHz, Composite Power 0dBm / -65dBm TVRO: Type-F, 950–1700 MHz
<b>Available BUC Power (IFL)</b>	+24V (Supports 4W KU or 5W C-band) +48V optional (limited to 120W, supports 4W Ku- and 5W C-band)
<b>Available LNB Power (IFL)</b>	+19.5V (Nominal)
<b>10 MHz Reference</b>	Available
<b>Data Interfaces</b>	LAN: Single 10/100 and 8-Port 10/100 Switch, 802.1q VLAN RS-232: RJ45 (for GPS or Console connection or Antenna Pointing)
<b>Protocols Supported</b>	TCP, UDP, ICMP, IGMP, RIP Ver2, BGP* Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, cRTP
<b>Security</b>	256-bit AES Encryption (Optional — Model 5150 and 5350)
<b>Traffic Engineering</b>	QoS (CBWFQ), Minimum CIR, CIR (Static and Dynamic), Rate Limiting, Bandwidth on Demand, QoS (Priority Queuing and CBWFQ), Group QoS, Application Based QOS
<b>Other Features</b>	Built-in Automatic Uplink Power, Frequency and Timing Control, Authentication, Antenna Control Interface (OpenAMIP)

**Mechanical/Environmental**

<b>Size</b>	W 11.5 in x D 9.675 in x H 2 in (W 28.9 cm x D 24.1 cm x H 5.1 cm)
<b>Weight</b>	3.75 pounds (1.7 Kg)
<b>Rack Mounting</b>	19" Rack Mountable, 19" Wide x 3.44" High (2U) x 11.5" Deep
<b>Operating Temperature</b>	0° to 50°C (+32° to +122°F) at Sea Level 0° to 45°C (+32° to +113°F) at 10000 Feet
<b>Input Voltage</b>	100-240 VAC Universal Input, 50–60 Hz, 2A Max at 100VAC
<b>Radio Standards</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</b>	Complies with IEC 60950, EN 60950-1, UL 60950-1, CSA C22.2 No.60950-1-03
<b>Emission Standard</b>	Complies with EN 55022 Class B, FCC Part 15 Class B, CISPR 22 Class B, EN 61000-3-2, EN 61000-3-3
<b>EMC/Immunity Standard</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

\*Future release