

satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | broadband IP | superior technology | satellite | reliable | high speed | hi

The iDirect Series 5000 Satellite Router

Large enterprises, carriers or any high volume users require a solution that can meet all their current communications demands, and scale to meet future needs. The iDirect Series 5000 Satellite Router provides all the functionality to support your most demanding applications and the networking power to support your most bandwidth intensive users.



Developed specifically to support the business critical applications of enterprise customers, the Series 5000 combines a flexible networking platform with the highest TCP/IP throughput in the industry - 18 Mbps downstream, and 4.2 Mbps upstream. This high bandwidth capacity, combined with iDirect's network flexibility, and Quality of Service (QoS) allows the series 5000 to go beyond traditional satellite networking, and operate as an extension of your landline network.

Performance to support all your applications

- Mesh Option
- ♦ SCPC Option
- → 3DES/AES Encryption Option
- ★ Enhanced voice over IP (VoIP) call quality support
- WIFI Optional

Bandwidth optimization

- Reservation MF-TDMA return channel that is 4 times more bandwidth efficient than Slotted Aloha
- Turbo Codes on the forward and return channel for a 1.5 dB power advantage over RSV codes
- Rapid bandwidth on demand
- ↑ 1.2 spacing delivers 14% savings in bandwidth
- ♦ Proprietary IP encapsulation that is 15% more efficient than MPE (multi-protocol encapsulation)
- ◆ TCP and HTTP Acceleration
- Networks configured in 1kbps increments to get exactly the bandwidth required

The iDirect line of remote satellite routers (series 3000, 5000 and 7000) is part of a family of solutions designed to meet the communications challenges of customers anywhere in the world. By providing different levels of functionality within the product lines, while insuring their interoperability, iDirect is uniquely capable of delivering the ideal networking solution for each customer network, or individual site based on their specific situation or challenges. iDirect's combination of flexibility and scalability allow us to deliver all the functionality of traditional broadband networks, beyond the constraints of the wired world.



Series 5000 Remote Satellite Router

Network Configuration

Network Topology Star or

Point to Point SCPC

Multiple Access TDM (Downstream)

D-TDMA (Deterministic TDMA) - Upstream

Symbol Rates Downstream: 64 ksps up to 11.5 Msps

Upstream: 64 ksps up to 2.875 Msps

Modulation QPSK

IP Data Rates Downstream: 128 kbps – 18 Mbps

Upstream: 64 kbps – 4.2 Mbps

FEC Downstream: TPC Rate 0.793 or TPC Rate 0.495

Upstream: TPC Rate 0.793 or TPC Rate 0.66

 E_b/N_o 4.0 E_b/N_o for 10^{-9} Quasi Error Free @ 0.495 FEC

 $4.6 E_b/N_o$ for 10^{-9} Quasi Error Free @ 0.793 FEC $5.4 E_b/N_o$ for 10^{-9} Quasi Error Free @ 0.66 FEC

Interfaces

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

RxIF: Type-F, 950 - 1700 MHz, Composite Power -5dBm / -65dBm

. i DIRECT

TVRO: Type-F, 950 - 1700 MHz

Available BUC Power (IFL) +24V @ 3.2 Amps (Nominal, Typically up to a 5W BUC)

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

10 Mhz Reference Available

Data Interfaces LAN: RJ45, 10/100 Ethernet, 802.1g VLAN

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

Protocols Supported TCP, UDP, ICMP, IGMP, RIP Ver2, Static Routes, NAT, DHCP, DHCP

Helper, DNS Caching

Security AES or 3DES Link Encryption (Optional)

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

Demand

Mechanical/Environmental

Size of Indoor Unit W 11.375 in x D 9.50 in x H 2 in

(W 28.9 cm x D 24.1 cm x H 5.1 cm)

Shipping Weight 10.0 lbs (Including IDU, Power Supply, Container, etc.) [4.6 Kg]

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 @ 100VAC