



iDirect Series 3000 Satellite Router

The iDirect series 3000 Satellite Router is specifically designed to address the distinct IP network communications needs of small remote branch offices. The series 3000 supplies all the hardware and software you need to meet all your essential remote broadband requirements.



The iDirect Series 3000 Satellite Router

Optimized for remote internet access, the iDirect series 3000 is an ideal solution for small to medium enterprise customers with basic remote networking needs. Able to deliver broadband access of up to 18 Mbps downstream, and 4.2 Mbps upstream, the 3000 series can support all your IP applications remotely, including VoIP and basic Video. iDirect's series 3000 Remote Satellite Router is a "single box" solution that includes a satellite modem, IP router, TCP acceleration over satellite, and QoS/prioritization in an easy to deploy, reliable design. The 3000 also offers:

Reduced total cost of ownership

Low cost of entry

D-TDMA – allows 98% payload efficiency iDirect networks save 40-50% capacity compared to most competitive solutions Turbo Product Codes on both the forward and return channel for a 1.5 dB power advantage over RSV codes Support for 1.2 Carrier Spacing – delivers 14% savings in bandwidth Pure IP-over-the-air transport that is 15% more efficient than most competitive solutions)

Office Location and Agents

South Carolina

Station 53, Inc.
4392 Cloudmont Drive
Hollywood, SC 29449
+ 1 843 564 4028

Florida

Yachtlink Engineering
100 Southwest 28th Street
Fort Lauderdale, Florida 33315
+ 1 954 524 5958

Spain

Lomond Marine Solutions S.L.
Valadro Palma
Muelle Viejo, s/n
+ 34 636 367 629

Efficient networking performance

Built-in TCP and HTTP Acceleration Built-in CIR-on-Demand By Application and true Application-QoS MF-TDMA return channel Bandwidth allocation with only 0.5 second lag between a request for capacity and its assignment Automatic End-to-End Uplink Power Control for higher network availability Adaptive Inbound Channel provides industry leading reliability and availability of the network 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, 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.

Network Configuration

Network Topology Star (TDM/TDMA with MF-TDMA)
Symbol Rates Downstream: 64 kbps up to 11.5 Msps
Upstream: 64 kbps up to 2.875 Msps
Modulation Downstream: QPSK (BPSK*, 8PSK*)
Upstream: QPSK (BPSK*)
IP Data Rates Downstream: 128 kbps – 18 Mbps
Upstream: 64 kbps – 4.2 Mbps
FEC Downstream: TPC Rate 0.879*, 0.793, 0.533, 0.431*
Upstream: TPC Rate 0.793, 0.66, 0.533, 0.431*
(Other FEC Rates will be available in the future)
Eb/No 3.9 Eb/No for 10⁻⁹ Quasi Error Free @ 0.533 FEC
4.6 Eb/No for 10⁻⁹ Quasi Error Free @ 0.793 FEC
4.8 Eb/No for 10⁻⁹ Quasi Error Free @ 0.879 FEC
5.4 Eb/No 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
TVRO: Type-F, 950 - 1700 MHz
Available BUC Power (IFL) +24V @ 3.2 Amps (Nominal, Typically up to 5W BUC)
Available LNB Power (IFL) +19.5V (Nominal)
10 Mhz Reference Available
Data Interfaces LAN: Single 10/100 Ethernet, 802.1q 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, Local DNS Caching, cRTP
Traffic Engineering QoS (CBWFQ), Minimum CIR, CIR (Static and Dynamic), Rate Limiting, Bandwidth on Demand
Other Features Built-in Automatic Uplink Power, Frequency and Timing Control
Adaptive Inbound Channel*

Mechanical/Environmental

Size W 11.375 in x D 9.5 in x H 2 in
(W 28.9 cm x D 24.1 cm x H 5.1 cm)
Weight 10 lbs (Including Power Supply) [4.6 Kg]
Rack Mounting 19" Rack Mountable, 19" Wide x 3.44" High (2U) x 11.5" Deep
Operating Temperature 00 to 500C (+320 to +1220F) at Sea Level
00 to 450C (+320 to +1130F) at 10000 Feet
Input Voltage 100-240 VAC Universal Input, 50-60 Hz, 2A Max @ 100VAC
* Planned for future release. Specifications subject to change without notice

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