

A black, rectangular satellite router with a textured top surface. The front panel features the iDirect Technologies logo on the left and the text "iDIRECT 5000 SERIES SATELLITE ROUTER" on the right. Below the text, there are five small indicator lights labeled "TX", "RX", "NET", "STATUS", and "POWER".

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Network Configuration

Network Topology	Star (TDM/TDMA with MF-TDMA) - Model 5100/5150 Star/Mesh* (TDM/TDMA with MF-TDMA) - Model 5300/5350 SCPC (IP Only) - 5100/5150/5300/5350
Symbol Rates	Downstream: 64 ksps up to 11.5 Msps Upstream: 64 ksps up to 2.875 Msps (5.75* Msps)
Modulation	Downstream: QPSK (BPSK*, 8PSK*) Upstream: QPSK (BPSK*)
IP Data Rates	Downstream: 128 kbps – 18 Mbps Upstream: 64 kbps – 4.2 Mbps (8.4* 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)
E_b/N_0	3.9 E_b/N_0 for 10^{-9} Quasi Error Free @ 0.533 FEC 4.6 E_b/N_0 for 10^{-9} Quasi Error Free @ 0.793 FEC 4.8 E_b/N_0 for 10^{-9} Quasi Error Free @ 0.879 FEC 5.4 E_b/N_0 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 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, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, cRTP
Security	AES or 3DES Link Encryption (Optional – Model 5150 and 5350)
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	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

- Planned for future release. Specifications subject to change without notice