



iNFINITI 3000 Series Satellite Router Model 3100, 3125

Network Configuration

Network Topology	Star (TDM/MF-TDMA)		
Modulation	Downstream: BPSK, QPSK, 8PSK Upstream: BPSK, QPSK		
Maximum Rates Supported	Max Rate	Downstream (TDM)	Upstream (D-TDMA)
	Symbol rate	Up to 11 Msps (QPSK, .793 FEC)	Up to 5 Msps (QPSK, .793 FEC, unlimited NMS)
	Info rate	Up to 18 Mbps (QPSK, .793 FEC)	Up to 8 Mbps (QPSK, .793 FEC, unlimited NMS)
	IP data rate	Up to 17.5 Mbps (QPSK, .793 FEC)	Up to 5 Mbps (QPSK, .793 FEC, unlimited NMS)
	For more information on maximum data rates please refer to the Release Notes of iDS 8.0.1		
FEC	For full list please refer to the latest iDirect Link Budget Analysis Guide		
E_b/N₀	For full list please refer to the latest iDirect Link Budget Analysis Guide		

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 (supports BUCs up to 4W Ku-band or 5W C-band)
Available LNB Power (IFL)	+19.5V (Nominal)
10 MHz Reference	Software controllable on Tx and Rx IF ports
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, ACL, ICMP, IGMP, RIP Ver2, BGP*, Static Routes, NAT, DHCP, DHCP Helper, Local DNS Caching, cRTP and GRE
Security	128-bit AES encryption (Optional — Model 3125)
Traffic Engineering	Group QoS, QoS (Priority Queuing and CBWFQ), Strict Priority Queuing, Application Based QoS, Minimum CIR, CIR (Static and Dynamic), Rate Limiting
Other Features	Built-in Automatic Uplink Power, Frequency and Timing Control, Authentication, Antenna Control Interface (OpenAMIP)

Mechanical/Environmental

Size	W 11.5 in x D9.5 in x H2 in. (W 29.2 cm x D24.1 cm x H5.1cm)
Operating Temperature	0° to +50°C (32° to +122°F) at Sea Level with temperature gradient of 5°C per 10mins 0° to +45°C (32° to +113°F) at 10000 feet (3048m) with temperature gradient of 5°C per 10mins
Humidity	Max 90% non-condensing humidity
Input Voltage	100–240 VAC Single Phase, 50–60 Hz, 2A max at 90 VAC, 1A max at 240 VAC
Radio Standards	EN 301-428 v1.3.1 — Ku-Band System Level Specifications EN 301-443 v1.3.1 — C-band System Level Specifications
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