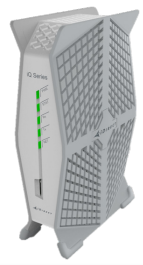# iQ Desktop for Evolution
Satellite Router

The iQ Desktop for iDirect Evolution® platform is part of iDirect's next-generation DVB-S2*/S2X remote series based on a future-proof hardware with software-defined architecture for maximum flexibility and expansion. The iQ Desktop is highly scalable and ideal for broadband access and small enterprise applications.

Network Configuration

Network Topology	DVB-S2*/S2X with Adaptive TDMA Returns		
	Downstream		**Upstream**
	DVB-S2X/ACM	DVB-S2*/ACM	Adaptive TDMA
Modulation	QPSK, 8PSK, 16APSK, 32APSK, 64APSK, 128APSK, 256APSK	QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK
Symbol Rates	5 to 119 Msps	1 to 45 Msps	128 ksps to 7.5 Msps

Interfaces

SatCom Interfaces	Tx: L-band/F-Type, 950-2400 MHz, 0dBm/-35dBm, 75Ω
	Rx: L-band/F-Type, 950-2150MHz, 75 Ω
	RF Power Transmit: Pmax of +0 dBm to Pmin of -35 dBm

	RF Power Receive: Max composite wide band receive level:
	   a) -5 dBm for symbol rates ≤ 45 Msps
	   b) 10 dB above wanted signal power level for symbol rates > 45 Msps
	 Minimum Receive Level: -115+10*log (Fsym(sps)) single carrier

Available BUC Power (IFL)	+24V, 2.0A** max available @ connector Tx Out
Available LNB Power (IFL)	13, 18, 21V @ 0.5A**, 22kHz tone @ connector Rx in
Data Interfaces	LAN: Two 10/100/1000 Mbps Ethernet
I/O	RJ45 console
Protocols Supported	TCP, UDP, ICMP, DHCP, NAT/PAT, DNS, ROHCv2, RIPv2, IGMPv2, IGMPv3, ICMP, IPv4 (IPv6 over L2oS), L3
Traffic Engineering	QoS, CIR (Static and Dynamic)
Licensable Features	Inbound throughput, 256-bit AES Encryption*

Mechanical/Environmental

Size	W 4.78 cm (1.88 in) x D 11.43 cm (4.5 in) x H 18.26 cm (7.19 in)
Weight	0.37 kg, (0.83lb)
Operating Temperature	0° to 40°C (32° to 104°F), 0° to 35°C (32° to 95°F) at 10,000 ft
Storage Temperature	-40° to +85°C (-40° to +185°F)
Operating Humidity	10-90% non-condensing
Storage Humidity	5-95% non-condensing
Input Voltage	100-240 VAC, 50-60Hz
Certifications	FCC, CE, TUV, and RoHS Compliant

Feature is release dependent
***Combined Tx & Rx power not to exceed 50W*