

iQ Desktop+ Satellite Router



The iQ Desktop+ is part of iDirect's 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 and is compatible on both Evolution® and iDirect Velocity®.

Network Configuration

Network Topology	DVB-S2*/S2X* with Adaptive TDMA Returns		
	<u>Downstream</u>		<u>Upstream</u>
Modulation	DVB-S2X*/ACM QPSK, 8PSK, 16APSK, 32APSK, 64APSK, 128APSK, 256APSK	DVB-S2*/ACM QPSK, 8PSK, 16APSK, 32APSK	Adaptive TDMA BPSK, QPSK, 8PSK, 16QAM*
Symbol Rates	5 to 100 Msps	1 to 45 Msps	128 kbps to 7.5 Msps

Interfaces

SatCom Interfaces	Tx: L-band/F-Type, 950-2400 MHz, 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: $-115 + 10 \cdot \log(F_{\text{sym}}(\text{sps}))$ single carrier
Available BUC Power (IFL)	+24V, 2.3A** (max) @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 - 1 for user traffic, 1 for management traffic
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 18.28cm (7.2 in) x D 11.17cm (4.4 in) x 4.44cm (1.75 in)
Weight	0.41 kg, (0.91lb)
Operational Temperature	65W AC PSU: 0° to +50°C (32° to +122°F) with up to 53W max power consumption 0° to +40°C (32° to +104°F) with up to 65W max power consumption 65W DC PSU: 0° to +50°C (32° to +122°F) with up to 65W max power consumption 90W AC PSU: 0° to +50°C (32° to +122°F) with up to 75W max power consumption 0° to +40°C (32° to +104°F) with up to 90W max power consumption
Storage Temperature	-40° to +85°C (-40° to +185°F)
Operational Humidity	10-90% non-condensing
Storage Humidity	5-95% non-condensing
Input Voltage	100-240 VAC, 50-60Hz 12-36VDC
Certifications	FCC, CE, TUV, and RoHS Compliant

* Feature is platform and release dependent

** 65W AC PSU: 40°C: combined Tx & Rx port power not to exceed 50W
50°C: combined Tx & Rx port power not to exceed 38W

65W DC PSU: 50°C: combined Tx & Rx port power not to exceed 50W

90W PSU: 40°C: combined Tx & Rx port power not to exceed 75W

50°C: combined Tx & Rx port power not to exceed 60W