Evolution X1 Satellite Router



Cost-effective remote bundle ideal for large, narrowband networks for SCADA, Point of Sale and ATM applications. The remote features DVB-S2/ACM and TDMA, basic routing, VLAN functionality and QoS. The bundle also includes a highly efficient BUC and LNB.

Network Configuration

ictwork configuration				
Network Topology	Star (DVB-S2/ACM downstream + Multi Frequency D-TDMA upstream)			
Modulation	Downstream: QPSK, 8PSK, 16APSK; Upstream: BPSK, QPSK, 8PSK			
Maximum Rates Supported	Rate	Downstream (TDM)	Upstream (D-TDMA)	
	Symbol rate	1 - 45 Msps	128 ksps – 2 Msps	
	Info rate	Up to 160 Mbps	Up to 4.8 Mbps	
FEC	The processing capability of an individual remote will be less than the stated maximum carrier size Downstream: LDPC, 1/4 - 8/9 Upstream: 2D 16-State, 1/2 - 6/7			
E_b/N_o	For full list, please refer to the latest iDirect Link Budget Analysis Guide			
nterfaces				
SatCom Interfaces	TxlF: Type-F, 950 - 1700 MHz, Composite Power 0dBm / -30dBm RxlF: Type-F, 950 - 2150MHz, Composite Power -5dBm / -65dBm			
Available BUC Power (IFL)	+24V, 25W max. supporting BUCs up to 3W (60W external PSU)			
Available LNB Power (IFL)	+24VDC, 22KHz DiSEqC tone			
Data Interfaces	LAN: 10/100 Ethernet Web-based configuration via Ethernet port			
Protocols Supported	TCP, UDP, ICMP, DHCP, Local DNS Caching			
Traffic Engineering	QoS (Priority Queuing, Strict Priority Queuing, WFQ); Application-based QoS; Configurable Packet Classifie CIR (Static and Dynamic), Minimum CIR, Idle/Dormant Min IR			
Other Features	Built-in Automatic Uplink Power Control, Frequency and Timing Control, Authentication, Remote Lock (to network)			
/lechanical/ Environmental				
Size	9"x 6.8"x 1.8" in			
Weight	2.0 lbs (0.91 Kg)			
Operating Temperature	0° to 50°C (+32° to 122°F) at Sea Level			
Humidity Input Voltage	5% - 92% non-condensing humidity 100-240 VAC Single Phase, 47-63 Hz, 1.4A max.			
Radio Standards	EN 301-428v1.3.1 – Ku-Band System Level Specifications EN 301-443v1.3.1 – C-Band System Level Specifications			
	Complies with IEC 60950, EN 60950, UL 60950-1, CSA C222 NO.60950-1-03			
Safety Standards		Complies with EN 55022 Class B, FCC Part 15 Class B, EN 61000-3-2, EN 61000-3-3		
Safety Standards Emission Standard	Complies with	EN 55022 Class B, FCC Part	15 Class B, EN 61000-3-2, EN 61000-3-3	
,	·	N55024,EN301-489-1,EN3	15 Class B, EN 61000-3-2, EN 61000-3-3 01-489-12, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-	



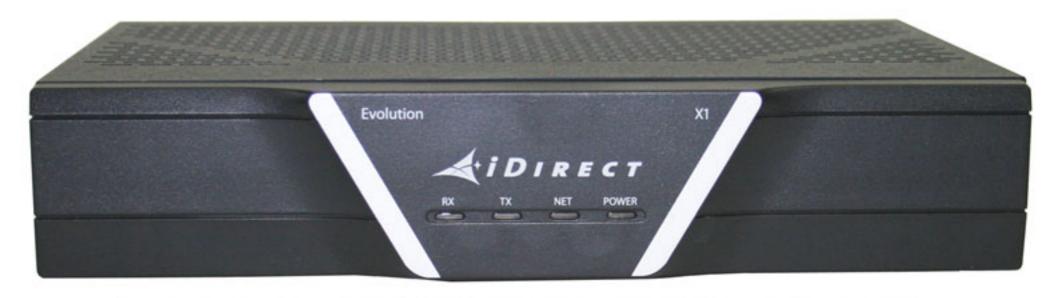
BUC Ku-band* 1.5W or 3W universal BUCs (13.75 – 14.50 GHz)

Ku-band* universal PLL (multiple sub-bands)

Ku-band* 75cm or larger antenna * contact Sales for frequencies other than Ku-band

LNB

Antenna





+24V = - -2.7A



TX Out



RXII



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