Evolution X1 Outdoor Satellite Router



Cost-effective remote bundle ideal for large-scale networks for SCADA, femtocells and pipeline monitoring. The remote features DVB-S2/ACM and Adaptive TDMA, routing, VLAN functionality, QoS, optional AES encryption and is embedded in a IP67 weatherproof enclosure enabling an extended temperature range, passive cooling and multiple power options, including DC.

Network Configuration

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Network Topology	Star (DVB-S2/ACM downstream + ATDMA upstream)		
Modulation	Downstream: QPSK, 8PSK, 16APSK , 32APSK; Upstream: BPSK, QPSK, 8PSK		
Maximum Rates Supported	Rate	<u>Downstream (DVB-S2)</u>	<u>Upstream (ATDMA)</u>
	Symbol rate	1 - 45 Msps	128 ksps – 4 Msps*
	Info rate	Up to 150 Mbps	Up to 10 Mbps*
	Line Card IP rate	Up to 149 Mbps	Up to 8.5 Mbps
	Remote IP data rate	Up to 76.3 Mbps	Up to 8.5 Mbps*
	Max rates are achieved under optimal conditions.		
FEC	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		
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Interfaces		
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, 1.5A (max)	
Available LNB Power (IFL)	+24VDC, 300mA (max), 22kHz DiSEqC tone	
Data Interfaces	LAN: 10/100 Ethernet Web-based configuration via Ethernet port	
Protocols Supported	TCP, UDP, ICMP, NAT/PAT*, DHCP, Local DNS Caching, cRTP*	
Security	AES-256 Link Encryption* (optional)	
Traffic Engineering	QoS (Priority Queuing, Strict Priority Queuing, WFQ); Application-based QoS; Configurable Packet Classifier; CIR (Static and Dynamic), Minimum CIR, Idle/Dormant Min IR	
Other Features	Built-in Automatic Uplink Power Control, Frequency and Timing Control, Authentication	

Mechanical/Environmental

Weight	5.0 lbs (2.27 kg)
Operating Temperature	-40° to 60°C (-40° to 140°F) at Sea Level
Humidity	100% condensing humidity
Immersion	IP67/NEMA 6
Input Voltage	100-240 VAC to 24 VDC; 12-36 VDC to 24 VDC; ±36-76 VDC (±48 VDC nominal) to 24 VDC
Certification	FCC, CE, TUV, and RoHS compliant

* iDX 3.3.0 and above

Size 10.25 x 10 x 3 inches (26 x 25.4 x 7.6 cm)

