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.

Star (DVB-S2/ACM downstream + ATDMA upstream)		
Downstream: QPSK, 8PSK, 16APSK; Upstream: BPSK, QPSK, 8PSK		
Rate	Downstream (DVB-S2)	<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.		
Downstream: LDPC, 1/4 - 8/9 Upstream: 2D 16-State, 1/2 - 6/7		
For full list, please refer to the latest iDirect Link Budget Analysis Guide		
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TxIF: Type-F, 950 - 1700 MHz, Composite Power 0dBm / -30dBm RxIF: Type-F, 950 - 2150MHz, Composite Power -5dBm / -65dBm		
+24V, 1.5A (max)		
+24VDC, 300mA (max), 22kHz DiSEqC tone		
LAN: 10/100 Ethernet Web-based configuration via Ethernet port		
TCP, UDP, ICMP, NAT/PAT*, DHCP, Local DNS Caching, cRTP*		
AES-256 Link Encryption* (optional)		
QoS (Priority Queuing, Strict Priority Queuing, WFQ); Application-based QoS; Configurable Packet Classifier; CIR (Static and Dynamic), Minimum CIR, Idle/Dormant Min IR		
Built-in Automatic Uplink Power Control, Frequency and Timing Control, Authentication		
10.25 x 10 x 3 inches (26 x 25.4 x 7.6 cm)		
5.0 lbs (2.27 kg)		
-40° to 60°C (-40° to 140°F) at Sea Level		
100% condensing humidity		
IP67/NEMA 6		
100-240 VAC to 24 VDC; 12-36 VDC to 24 VDC; $\pm 36\text{-}76$ VDC (± 48 VDC nominal) to 24 VDC		
FCC, CE, TUV, and RoHS compliant		
* iDX 3.3.0 and above		
	Downstream: QPSK, 8PS <u>Rate</u> Symbol rate Info rate Line Card IP rate Remote IP data rate Max rates are achieved u Downstream: LDPC, 1/4 Upstream: 2D 16-State, 1 For full list, please refer to TxIF: Type-F, 950 - 1700 N RxIF: Type-F, 950 - 2150N +24V, 1.5A (max) +24VDC, 300mA (max), 2 LAN: 10/100 Ethernet Web-based configuration TCP, UDP, ICMP, NAT/PAT AES-256 Link Encryption QoS (Priority Queuing, S CIR (Static and Dynamic) Built-in Automatic Uplin 10.25 x 10 x 3 inches (26 5.0 lbs (2.27 kg) -40° to 60°C (-40° to 140° 100% condensing humid IP67/NEMA 6 100-240 VAC to 24 VDC; FCC, CE, TUV, and RoHS of	Downstream: QPSK, 8PSK, 16APSK; Upstream: BPSK, QRateDownstream (DVB-S2)Symbol rate1 - 45 MspsInfo rateUp to 150 MbpsLine Card IP rateUp to 149 MbpsRemote IP data rateUp to 76.3 MbpsMax rates are achieved under optimal conditions.Downstream: LDPC, 1/4 - 8/9Upstream: 2D 16-State, 1/2 - 6/7For full list, please refer to the latest iDirect Link BudgeTxlF: Type-F, 950 - 1700 MHz, Composite Power 0dBmRxIF: Type-F, 950 - 2150MHz, Composite Power -5dBm+24V, 1.5A (max)+24VDC, 300mA (max), 22kHz DiSEqC toneLAN: 10/100 EthernetWeb-based configuration via Ethernet portTCP, UDP, ICMP, NAT/PAT*, DHCP, Local DNS Caching, clAES-256 Link Encryption* (optional)QoS (Priority Queuing, Strict Priority Queuing, WFQ); ACIR (Static and Dynamic), Minimum CIR, Idle/DormantBuilt-in Automatic Uplink Power Control, Frequency ar10.25 x 10 x 3 inches (26 x 25.4 x 7.6 cm)5.0 lbs (2.27 kg)-40° to 60°C (-40° to 140°F) at Sea Level100% condensing humidityIP67/NEMA 6100-240 VAC to 24 VDC; 12-36 VDC to 24 VDC; ±36-76FCC, CE, TUV, and RoHS compliant

