

## iQ LTE Series Satellite Router



The iQ LTE Series combines iDirect's next-generation DVB-S2/DVB-S2X satellite connectivity with 4G-LTE creating a converged solution able to deliver reliable and persistent communications across a wide range of use cases. Featuring an integrated Cradlepoint LTE cellular router, the solution offers fully automated VSAT/LTE failover and failback, WAN link affinity steering, advanced VPN connectivity, and an available SD-WAN option for robust enterprise grade communications.

### VSAT Support

<b>Network Topology</b>	DVB-S2 and DVB-S2X with Adaptive TDMA Returns		
	<b>Downstream</b>		<b>Upstream</b>
	DVB-S2X*/ACM	DVB-S2/ACM	Adaptive TDMA
<b>Modulation</b>	QPSK, 8PSK, 16APSK, 32APSK, 64APSK, 128APSK, 256APSK	QPSK, 8PSK, 16APSK, 32APSK	BPSK, QPSK, 8PSK
<b>Symbol Rates</b>	5 to 100 Msps	1 to 45 Msps	128 kpsps to 15 Msps

### Cellular Support

<b>LTE WAN Features</b>	Failover/Failback, Load balancing, Traffic steering with WAN Affinity, IP passthrough, QoS (DSCP and priority queuing)		
<b>LTE Management</b>	Cradlepoint NetCloud Manager, Web UI, API, CLI, SNMP, SMS control		
<b>LTE Specifications</b>	Dual SIM w/ Auto-carrier selection, DC-HSPA+ failover		
	<b>iQ LTE</b>	<b>iQ LTE+</b>	<b>iQ Pro</b>
	based on IBR650C-150M	based on IBR900-600M	based on IBR900-1200M
	150 Mbps modem	600 Mbps modem	1200 Mbps modem
	Availability TBD per region*	Available in most regions	North America Only - FirstNet Ready
	non-Wifi	Wifi + GPS	Wifi + GPS

### Interfaces

<b>VSAT Interfaces</b>	Tx: L-band/F-Type, 950-2150 MHz, 0dBm/-35dBm, 75Ω Rx: L-band/F-Type, 950-2150 MHz, 75 Ω
<b>Cellular Interfaces</b>	SMA, 50 Ω Dual-SIM card slot
<b>Data Interfaces</b>	LAN: One 10/100/1000 Mbps Router Ethernet Port for VSAT/LTE combined features VSAT: RJ45 console port, Ethernet management port
<b>Protocols Supported</b>	TCP, UDP, ICMP, DHCP, NAT/PAT, DNS, ROHCv2, RIPv2, IGMPv2, IGMPv3, ICMP, IPv4 (IPv6 over L2oS)
<b>Traffic Engineering</b>	QoS, CIR (Static and Dynamic)
<b>Licensable Features</b>	Inbound throughput, 256-bit AES Encryption

### Mechanical/Environmental

<b>Size</b>	W 44.5 cm (17.5 in) x D 32 cm (12.6 in) x H 4.45 cm (1.75 in)
<b>Temperature</b>	Operational: 0° to +60° C (+32° to +140° F) Storage: -40° to +85° C (-40° to +185° F)
<b>Humidity</b>	Operational: 10 - 90% non-condensing Storage: 5 - 95% condensing
<b>Input Voltage</b>	Two Power Variants: 100-240 VAC Auto-Ranging or 36-76 VDC (availability for DC power TBD)
<b>Certifications</b>	FCC, CE, TUV and RoHS iQ LTE Series Satellite Router designed with 4G-LTE/WIFI certified module. Module level 4G-LTE/WIFI approvals and certifications are obtained by Cradlepoint.

\*Platform and release dependent    \*\*Regional Certification per demand