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

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

Cellular Support

LTE WAN Features	Failover/Failback, Load balancing, Traffic steering with WAN Affinity, IP passthrough, QoS (DSCP and priority queuing)		
LTE Management	Cradlepoint NetCloud Manager, Web UI, API, CLI, SNMP, SMS control		
LTE Specifications	Dual SIM w/ Auto-carrier selection, DC-HSPA+ failover		
	iQ LTE	**iQ LTE+**	**iQ LTE Pro**
	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

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

Mechanical/Environmental

Size	W 44.5 cm (17.5 in) x D 32 cm (12.6 in) x H 4.45 cm (1.75 in)
Temperature	Operational: 0° to +60° C (+32° to +140° F)
	Storage: -40° to +85° C (-40° to +185° F)
Humidity	Operational: 10 - 90% non-condensing
	Storage: 5 - 95% condensing
Input Voltage	Two Power Variants: 100–240 VAC Auto-Ranging or 36–76 VDC (availability for DC power TBD)
Certifications	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

*** iQ LTE Pro model can include either IBR900-1200M or IBR900-1200M-B