

iDirect iQ LTE Cellular-VSAT Solution

The iQ LTE Series combines iDirect's DVB-S2/DVB-S2X* satellite remote with Cradlepoint's LTE cellular modem, creating a converged solution able to deliver reliable data communication for several use cases where physical path redundancy is critical.

As a result, customers are able to reach more end users with highly available, reliable connectivity opening up new opportunities for business. There are several key markets and applications that benefit from this hybrid approach including Enterprise & Retail, Maritime, and Government & Emergency Response.

The iQ LTE Series provides maximum flexibility with automated VSAT/LTE failover and fallback and consolidates what typically required a multi-box configuration into a 1U rack-mounted form factor. This cost-effective single box solution reduces the hardware footprint, simplifies installation, and allows service providers to design and deploy services which aggregate LTE and VSAT billing under a single bill to the end-customer.

The remotes also have all of the leading iDirect platform features such as DVB-S2/DVB-S2X* on the outbound and Adaptive TDMA on the return, Layer 2 over Satellite (L2oS), and advanced mobility. The iQ LTE Series are deployed and managed by the iDirect network management system (NMS) while the Cradlepoint LTE router is managed by NetCloud Manager.

Key Markets for iDirect's iQ LTE Series Remotes

Enterprise & Retail



Provides redundant path connectivity to ATMs, POS, and Digital Signage.

Maritime



Provides both LTE and VSAT connectivity, use VSAT when out to sea and connect back to the LTE network when inshore.

Government & Emergency Response



Take advantage of VSAT connectivity until LTE network is restored.



iDirect iQ LTE Modem/Remote

First Hybrid LTE Remote

	iQ LTE
Summary Features	VSAT/LTE failover and failback Traffic Steering w/ WAN affinity Advanced VPN connectivity QoS (DSCP and Priority Queuing) Dual SIM card Slot DVB-S2/S2X*, ATDMA Multicast Overlay
Embedded LTE Router	CradlePoint IBR 900/IBR650C Series of Dual SIM mobile routers
Markets Served	Enterprise/Retail, Maritime, Emergency Response, Disaster Recovery, Government, Rural Broadband

iQ LTE Applications

<p>Secure Banking and ATM Resiliency</p> <p>By providing both LTE and VSAT connectivity in a single box, the iQ LTE can be deployed in remote bank/ATM locations giving the integrator flexibility in their installation. If both connectivity types are available at the remote location, the iQ LTE will be able to choose the best path with the ability to failover/fallback between LTE and Satellite.</p>	<p>Pleasure Vessels</p> <p>Whether cruising the deep seas or staying close to shore, pleasure vessels are able to stay connected. The iQ LTE will take advantage of the best internet connection available utilizing either the VSAT or LTE network connection. Seamlessly stream music or videos, and stay connected to friends while you enjoy time on the yacht.</p>	<p>First Responders / Mobile Command</p> <p>When responding to major emergencies like natural disasters, first responders need to be able to communicate. When the local infrastructure has been destroyed, first responders can leverage the iQ LTE's VSAT connection. Once the LTE network has been restored first responders can then switch to the lower cost LTE connection.</p>
<p>Retail /Digital Signage</p> <p>Take advantage of the best features of both LTE and Satellite connectivity. Utilizing the satellite connection for high speed multicasts you can update to all retail locations simultaneously. LTE connectivity is then used for real-time communications such as voice and video, enabling your digital signage to generate advertising revenues.</p>	<p>Oil and Gas Tender Vessels</p> <p>Offshore oilfield operators have long been relying on VSAT connectivity. As OSV and tender vessels are evolving into remote enterprise offices, the iQ LTE provides smart connectivity and optimized network usage, bringing together the benefits of higher speeds, lower latency of LTE when available, with the ubiquity of VSAT. By providing automatic network diversity, the iQ LTE enables digitization for cost savings, compliance, real-time data reporting, enhanced decision-making and greater accountability.</p>	<p>Rural Broadband and USO</p> <p>As governments in developing countries extend connectivity to rural and remote areas, they can streamline their deployments with a single box solution. The iQ LTE provides both wireless and VSAT connectivity, wherever either is available or commercially feasible, and caters to multiple types of sponsored projects that can stimulate economic growth.</p>

*Platform and release dependent

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