

# iDirect Embedded Computing Remotes

The iDirect Embedded Computing (EC) remote equips iDirect's market leading X7 remote with extra processing power and memory so it can run value-added software for seamless delivery of services to the network edge.

As a result, customers are able to tailor remote capabilities to better meet specific market requirements by licensing supported applications. The first three certified applications are iDirect SatHaul Optimization, Cisco 5921 Embedded Services Router, and Xiplink Virtual (XV) Optimization.

The EC remotes increase value by consolidating solutions that typically require use of a multi-box configuration into a 1U rack-mounted form factor. This cost-effective single box solution reduces the hardware footprint, simplifies installation, decreases points of failure and lowers power consumption.

The remotes still have all of the standard iDirect connectivity features, such as DVB-S2 on the outbound and Adaptive TDMA on the return. Since functionality can be added after deployment through over-the-air upgrades or enablement of licensed features, the EC series remotes bring value today with the ability to meet future market needs.

## Certified Applications for iDirect's X7-EC Remote

### iDirect SatHaul™ Optimization



Deliver high-quality, secure and efficient voice and data transport through iDirect's advanced VSAT 4G/LTE backhaul solution.

### Cisco® 5921 Embedded Services Router



Extend Cisco IOS® routing to the edge and enjoy sophisticated end-point management across an iDirect L2oS-based network.

### XipLink™ Virtual (XV) Optimization



Improve enterprise network throughput and efficiency through XipLink's acceleration, compression and optimization.



# iDirect Embedded Computing Remotes

## First EC Series Remote

	X7-EC
<b>Summary Features</b>	6 x 10/100Base-T Ports 2 x 10/100/1000Base-T Ports (Application Specific) Mobility Enabled 2nd Multicast Demod 8 W Buc Max Max 16 Mbps Upstream
<b>Embedded Computing</b>	Intel® Atom™ family, 64-bit, 8 core, 2.4 GHz clock speed Memory: 16 GB RAM, 120 GB solid state hard drive
<b>Markets Served</b>	Enterprise, Cellular Backhaul, Emergency Response, Disaster Recovery, Maritime, Telco Services

Each X7-EC remote must be paired with one of three licensable applications, creating an ideal enterprise class solution.

## Licensable Applications

iDirect SatHaul™ Optimization	Cisco® 5921 Embedded Services Router	XipLink™ Virtual (XV) Optimization
Improve user experience and save bandwidth when backhauling 4G/LTE traffic over satellite with iDirect SatHaul Optimization. TCP Acceleration and IPsec provide a fast, optimized and secure connection from the wireless device to the mobile operator's EPC, including transport through the entire satellite link. Advanced header and payload compression techniques save bandwidth and provide the most cost effective 4G/LTE solution over satellite.	Extend Cisco IOS® capabilities to the iDirect platform by deploying Cisco integrated services within a one-box satellite remote and routing solution. The Cisco 5921 ESR provides cost-effective support of industry standard protocols and advanced end-point management across an iDirect L2oS-based network. Available features include traffic QoS, secure connectivity, radio aware routing, management services, NAT to PAT, and DHCP.	Xiplink XV Optimization improves throughput and efficiency of traffic over enterprise networks with its Wireless Link Optimization suite of tools, bringing acceleration and compression capabilities to a satellite network. Features like scalable TCP acceleration, link bonding/balancing, packet coalescing, and byte caching improve the business case for satellite across many different enterprise applications.

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