

# UNIVERSAL PRODUCTS

## Universal Product Portfolio for Maximum Network Flexibility

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ST Engineering iDirect's universal suite of products supports multiple bands and topologies to meet any application across a broad array of markets. Compatible on both the Evolution® and Velocity® platforms, the proven DVB-S2 and DVB-S2/DVB-S2X portfolio bring unprecedented levels of performance and efficiency for HTS as well as investment protection.

ST Engineering iDirect offers a powerful range of universal satellite hubs, versatile satellite routers, and a series of application-specific, network products such as accelerators and optimization solutions.

## Universal Line Cards

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### Your Bridge Between S2 and S2X

The transition to DVB-S2X starts with the Universal Line Card, which can run in DVB-S2 or DVB-S2X mode, in Evolution or Velocity networks, and operates in the Universal Hub chassis.



ULC-T

The ULC-T, transmit line card, supports up to 45 Msps with 32APSK in DVB-S2 mode, and up to 119 Msps in DVB-S2X mode with MODCODs up to 256APSK to achieve greater throughput and efficiencies.



ULC-R

The ULC-R, multi-channel return line card, supports the highest Adaptive TDMA rate to date with up to 29 Msps of aggregate throughput and up to 16 demod channels for higher performance and efficiency.

## iDirect Intelligent Gateway

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### A Smarter Way to Grow

Featuring up to four powerful sleds in a fully redundant configuration, the Intelligent Gateway Appliance virtualizes multiple protocol processors (PPs), while future proofing the gateway infrastructure for large-scale growth of your DVB-S2 and DVB-S2X networks, whether on Evolution or Velocity.

The greatly improved density results in a massive footprint reduction, decreasing cooling and IT management expenses, while vastly improving performance.



## DVB-S2 Satellite Routers

### Proven Remote Solutions

The iDirect DVB-S2 remote portfolio supports a wide range of data speeds — from narrowband to large bit rates — to meet distinct end user requirements for any market application. The remotes are available in multiple form factors, including desktops, rackmounts, outdoor variants and router boards.

#### X1 Series

- Compact, cost-effective for large-scale networks
- X1 Series is supported on Evolution only



X1



X1 Outdoor



X7

#### X7 Series

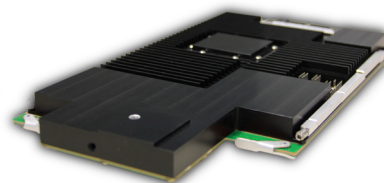
- Ideal for mobile and enterprise applications
- Available in multiple variants (rackmount, board, aero)
- Evolution Multi-Carrier Mesh Solution



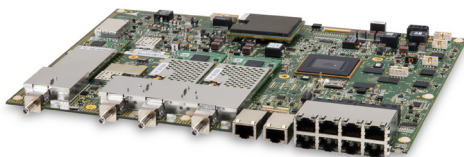
CX780 Commercial Aero (*Velocity only*)

#### 9 Series

- High-performance and secure mobility remotes
- Available in rackmount, board and manpack form factors including Defense Aero variants



980



900



950mp



9800 AE



9350

## DVB-S2/ DVB-S2X Remote Series

### iQ Remote Series

ST Engineering iDirect's iQ Series introduces a new model for performance and efficiency for fixed and mobility networks so you can effortlessly meet demanding service levels and build out massive networks with greater speed and reduced costs.

Featuring a software-defined architecture, the iQ Series enables a multitude of capabilities through software feature licensing scaling according to your needs.

### iQ Remote Series

- iQ Desktop Series for broadband and cost-effective enterprise networks
- iQ 200 Series (board, rackmount) ideal for small to medium enterprise and cost-effective maritime applications such as fishing and small merchant vessel
- iQ LTE Series (rackmount) hybrid VSAT and 4G-LTE converged solution for banking and ATM, first responder and mobile command, and maritime applications



iQ Desktop



iQ 200 Board



iQ 200 Rackmount



iQ LTE

To learn more, please visit [iDirect.net/Products](http://iDirect.net/Products)