iDirect Satellite Routers

✦ i D I R E C T

1016.2

iDirect's product portfolio combines innovative technology and solutions to support all your networking requirements for bandwidth, location, satellite frequency, topology or application. 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.

The iDirect portfolio of satellite routers provide connectivity to a shared bandwidth platform spanning multiple satellites. iDirect offers a full line of compact satellite routers that integrate a satellite modem and IP router with TCP optimization over satellite, QoS prioritization and compression into an easily deployed, reliable one-box design.

iDirect's family of routers consists of Evolution® DVB-S2 models as well as the CX and iConnex family of router boards that can be easily integrated into third-party solutions.

Evolution® Satellite Routers

iDirect's Evolution routers support DVB-S2 with Adaptive Coding and Modulation (ACM), a bandwidth-efficient technology for networks with larger outbound capacity requirements. iDirect's DVB-S2 was designed and developed around IP and uses extremely efficient encapsulation techniques that deliver high-speed broadband connectivity.

Evolution® X1 Series Satellite Router

X1

X1 Outdoor

The Evolution X1 is a compact, low-power remote optimized for large-scale networks such as SCADA, point-of-sale, ATM, cellular backhaul, and small enterprise. Optional outdoor version is available with IP67 weatherproof enclosure for an extended temperature range and AC or DC power supplies.

- Star topology
- Optional 256-bit AES encryption
- Models: X1, X1 Outdoor

Evolution® X3 Satellite Router

The Evolution®X3 is ideally suited for broadband connectivity such as Internet and VPN access to enterprise networks, as well as real-time VoIP and video conferencing applications.

- Star and SCPC Return upstream channels
- Optional 256-bit AES encryption

Evolution® X5 Satellite Router

The Evolution® X5 features dual-mode operation of DVB-S2/ACM or iNFINITI® TDM on the outbound. The X5 is designed to support business-critical, broadband applications such as enterprise connectivity, cellular backhaul, maritime and other mobile applications.

- Star and SCPC Return upstream channels
- Optional Mobility and 256-bit AES encryption features

X7 Series Satellite Router

X7

X7-EC

The X7 Satellite Router is a powerful rack-mount remote featuring an embedded 8-port switch, a 2nd DVB-S2 demodulator, and variant power supply configurations. Ideal for maritime, offshore drilling, mining, media and enterprise. Embedded Computing version with extra processing power and memory to run value-added applications.

- Star and SCPC Return (*Evolution only*) upstream channels
- Mobility and optional 256-bit AES encryption features
- Models: X7, X7-EC

Defense Satellite Routers

iDirect's defense satellite routers are designed to meet the most rigorous demands for mobility and security with TRANSEC and FIPS 140-2 Level 3 for military and government networks.

9350

9800 AR

9800 AE

9-Series Satellite Router

The 9-Series Satellite Router features an embedded 8-port GigE switch and dual demodulators. With twice the transmission speeds, the 9-series supports Communications on the Move (COTM) and Communications on the Pause (COTP) and Aero applications.

- FIPS 140-2 Level 3, TRANSEC Module and WGS Certified

- Support for HTS including Inmarsat GX

- MIL-STD 810G Certified

- Models: 9350, 9800 AE*, 9800 AR*

- Board-only variants available

Evolution 8350

e8000 AR XL

e8000 AE

Evolution® 8000 Series Satellite Router

The Evolution® 8000 Series Satellite Router provides fast, reliable quality of service for military and government networks with Communications on the Move (COTM), Communications on the Pause (COTP) and Aero applications.

- Integrated Spread Spectrum waveform technology

- TRANSEC with 256-bit AES encryption

- FIPS 140-2 Level 2 and WGS Certified

- Models: e8350, e8000 AE, e8000 AR XL

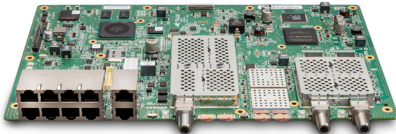- Board-only variants available

* Future release

Integrated Router Boards

The iDirect Integrated Router Boards are designed to be integrated into third-party solutions to support VSAT communications. The integrated boards support the same functionality and performance as the stand-alone routers. Integrated board features include:

- Optional 256-bit AES encryption

- Built-in TCP and HTTP acceleration

- Advanced QoS prioritization

- Higher processing power to support more concurrent TCP sessions

- Interface for GPS input or Antenna Control Signaling

Evolution® Integrated Router Boards

The Evolution Integrated Router Boards are designed to be easily integrated into portable solutions. The router boards deliver always-on broadband capabilities into smaller form factors that support data, voice, and video connectivity in highly mobile applications. The CX Series has an embedded 8-port switch and a second DVB-S2 demodulator* that supports maritime and enterprise-class applications. Available in the following models:

- e150

- CX700

e150

CX700

Defense Integrated Router Boards

The Defense Integrated Router boards have a small lightweight form factor for easy integration into portable VSAT solutions. To meet the most rigorous demands for mobility and security with TRANSEC and FIPS 140-2 Level 2 and Level 3, defense router boards deliver always-on broadband capabilities into smaller form factors that support data, voice, and video connectivity in highly mobile military and government applications. Available in the following models:

- 900, 950mp, 980

- e800, e800-FIPSL2, e850mp, e850mp-IND, e850mp-FIPSL2

950mp

980

Advancing a Connected World

About VT iDirect

VT iDirect, a world leader in satellite-based IP communications technology, transforms the way the world gets and stays connected. Our satellite-based IP communications technology enables constant communication for voice, video and data applications in diverse and challenging environments. These include:

- Supporting critical IP applications across the enterprise from VoIP and VPN, to streaming media

- Expanding cellular networks deep into rural and remote areas

- Providing back-up networks during network failure to assure business continuity

- Keeping emergency response teams in touch and in control

- Providing reliable, high-speed mobile broadband connectivity at sea or in the air that improves operations and crew welfare

We invite you to learn more about our product family at: idirect.net/Products