iDirect’s product portfolio combines innovative technology and solutions to support all your networking requirements for bandwidth, location, satellite frequency, topology or application. The Evolution product line is a high-speed, two-way, IP-based communications system, engineered to the highest military standards. With DVB-S2/ACM and Adaptive TDMA it offers a reliable, efficient solution. iDirect’s portfolio consists of universal hubs and line cards that can span networks of up to 5 satellites. Its remote portfolio features rack-mount routers, aero solutions and integrated router boards optimized for size, weight and power that can be integrated by our partners into specialized portable and mobile systems. Embedded mobility and security enable secure communication for military applications, in any environment, fixed and mobile.

iDirect enables military formations to deploy secure, high-speed connectivity anywhere, delivering immediate access to mission-critical information.
Evolution® Satellite Hubs and Linecards

Series 15100 Universal Satellite Hub (5IF/20 Slot)
The series 15100 Universal Satellite Hub is iDirect’s largest, most flexible satellite hub system enabling unparallel two-way VSAT satellite solutions. The hub houses up to 20 line cards, providing a very modular approach to growth. Operators can start off with just a few remotes in one network and easily scale to several thousand remotes on multiple networks. The Series 15100 brings a new level of scalability designed for growth and performance.

- Supports DVB-S2 TRANSEC for improved security
- 5IF version supports X, Ku, C or Ka-Band on up to 5 satellites
- Enables Virtual Network Operator management reducing capital investments and increasing ROI

Series 12200 Universal Satellite Hub (Industrial 4-slot)
The Series 12200 is a 4-slot ideal for deploying multiple high performance IP broadband networks in harsh environments. Ideal for military communications, first responders, or disaster recovery, the 4-slot is capable of operating multiple high performance IP broadband networks.

- MIL-STD 810F certified for temperature, altitude, humidity and shock and vibration
- Rack-mountable chassis houses up to four line card slots and a fifth slot for configuration
- 1IF or 4IF version supports multiple bands and transponders on up to four satellites

Evolution Line Cards
Evolution line cards feature DVB-S2/ACM on the outbound and Adaptive TDMA or SCPC on the inbound. The line cards are available in demodulator only, modulator/demodulator with dual mode operation, modulator only, multi-channel demodulators and an industrialized version for military and government applications. Line cards are FIPS 140-2 Level 2 physical certified. Models include:

- eM1D1
- eM1D1-FIPSL2
- eM0DM
- eM0DM-FIPSL2
- DLC-T*
- DLC-R*

* Future release
Evolution 8000/9000 Series Satellite Routers

The Evolution 8000 Series and 9000 Series provide a new level of IP broadband capability, supporting DVBS-2/ACM. Service providers can implement the most efficient technology dependent on their network architecture, resulting in a more cost efficient use of extremely small antennas on aircraft, maritime and land-based vehicles for government and military applications. Models include:

- e8350, e8350-48, e8350-FIPSL2, e8350 FIPSL2-48
- e8000 AE and e8000 AR XL
- 9350*

Evolution Defense Integrated Router Boards

The Defense Integrated Router Boards are designed to be easily integrated into portable solutions. Meeting the most rigorous demands for mobility and security, the 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. The routers are also available in a FIPS 140-2 Level 2 physical certified model. Models include:

- e150, e800, e800-FIPSL2, e850mp, e850mp-FIPSL2
- 950mp*

With ~30% reduction in size, weight and power for man-portable terminals, the next-generation 950mp board includes transmit keyline for additional power savings.

* Future release

<table>
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<tr>
<th>Features</th>
<th>e8350</th>
<th>e850mp</th>
<th>e150</th>
<th>e8000 AE</th>
<th>e8000 AR XL</th>
<th>9350*</th>
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iVantage
iDirect's industry-leading iVantage® Network Management System (NMS) is a complete suite of software-based tools to configure, monitor and control an entire satellite network from single or multiple locations.

iVantage® transforms the way complex satellite networks are managed with its intuitive visual interface and built-in intelligence that automatically anticipates potential network outages and provides real-time network performance analytics.

SatManage
SatManage is a sophisticated suite of Web-based software tools for automation, monitoring and integration of hybrid networks and NOC-based applications. SatManage is a powerful extension to iDirect's iVantage NMS, taking NOC operations to an even higher standard of network performance and scalability. Featuring a powerful range of Web-based tools, SatManage enables service providers to improve overall service quality and network operations.
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 from VoIP, data and VPN, to streaming media
• Expanding cellular networks deep into remote areas
• Providing back-up networks during network failure to assure access wherever needed
• 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

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