

iDirect Defense Portfolio

Advancing a Connected World



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.

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 unparalleled 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 (VNO) management reducing capital investments and increasing ROI



Series 11000 Tactical Hub (1IF/2 Slot)

The Series 11000 Tactical Hub is iDirect's deployable hub solution optimized around size, weight, power (SWaP) and setup enabling unparalleled two-way, VSAT satellite solutions. The chassis is ideal for military, comms-on-the-pause, first responders, disaster recovery, or other field operations.

- MIL-STD 810G certified for temperature, altitude, humidity and shock and vibration
- 2RU chassis with 1 DLC-R and 1 DLC-T line card embedded
- FIPS 140-2 Level 3 and TRANSEC



Defense Line Cards

Industrialized for military and government applications, defense line cards feature DVB-S2/ACM on the outbound and Adaptive TDMA on the inbound. The Defense Line Cards (DLCs) are compatible on both the Evolution and Velocity platforms and are FIPS 140-2 Level 3 certifiable. The DLC-T is also future proofed to be DVB-S2X ready. Models include:

- DLC-R
- DLC-T
- eM1D1
- eM0DM

Defense Satellite Routers



9350



9800 AE



9800 AR

9-Series Defense Satellite Routers

The 9-Series provide a new level of IP broadband capability, featuring DVB-S2/ACM, an embedded 8-port GigE switch, and dual demodulators. 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:

- 9350
- 9800 AE
- 9800 AR



950mp



e150



980

Defense Integrated Router Boards

The Defense Integrated Router Boards are designed to be easily integrated into portable solutions. Meeting stringent demands for mobility and security, the router boards deliver always-on broadband capabilities that support data, voice, and video connectivity for military and government applications. The routers are TRANSEC, WGS, and FIPS 140-2 certifiable. Models include:

- 900, 950mp
- e150

Designed for ultra HS-COTM with dual demodulators and extended frequency range.

- 980

** Applies to iDirect Velocity and is release-dependent.*

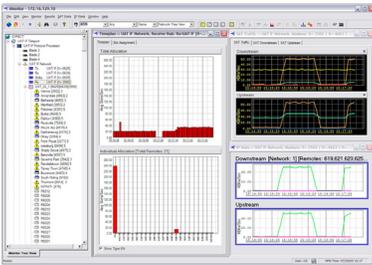
Features	9350	950mp	980	9800 AE	9800 AR	e150
DVB-S2/ACM	✓	✓	✓	✓	✓	✓
Adaptive TDMA	✓	✓	✓	✓	✓	
Dual Demodulators	✓		✓	✓	✓	
FIPS 140-2 L3 TRANSEC Module	✓	✓	✓	✓	✓	
256-bit AES Encryption*	✓	✓	✓	✓	✓	✓
TCP and HTTP Acceleration	✓	✓	✓	✓	✓	
Spread Spectrum	✓	✓	✓	✓	✓	✓
WGS Certified	✓	✓	✓	✓	✓	
QoS Prioritization	✓	✓	✓	✓	✓	✓
Embedded Ethernet Switch	✓	✓		✓	✓	
HS-COTM (Airborne)			✓	✓	✓	

Network Management

iVantage

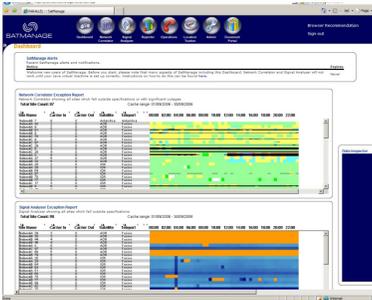
iDirect's industry-leading iVantage® Network Management System (NMS) is a complete suite of software-based tools to configure, monitor and control an entire satellite network from single or multiple locations.

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

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