

# SwiftLink® DVM-100



Mission-sensitive communications for military and emergency response teams often require access to high-speed satellite services. Field operators with limited Very Small Aperture Terminal (VSAT) experience need simple-to-operate systems. If you are responsible for deployments but lack SATCOM-trained personnel to operate satellite communications terminals, TeleCommunication Systems, Inc. (TCS) has a solution for you: a state-of-the-art VSAT system with intuitive software that enables non-technical users to quickly set up and access broadband satellite services.

The SwiftLink® DVM-100 is a 1.0-meter Ku-band deployable VSAT module that is team-transportable and provides fully automated remote access broadband satellite connectivity via a flyaway terminal.

## Benefits/Features

- Supports transformational, highly mobile, “on-the-stop” military operations
- Lightweight and compact—easily transportable by two team members
- Easy 20-minute set-up
- Requires minimal training and does not require specialized technical support in the field
- Software-driven satellite acquisition and signal lock pointing that reduces test equipment requirements
- Fully interoperable with iDirect Technologies’ enabled teleports
- Ships in sturdy containers eliminating the need for field re-packaging
- Patented AvL Technologies antenna incorporating TracStar™ GPS enabled positioning system
- Plug-n-play with other SwiftLink systems via simple Ethernet interface
- Integrated iDirect Technologies’ D-TDMA satellite modem
- Patented AvL Technologies Roto-Lok® motorized antenna positioner
- GPS-based TracStar subsystem
- CAT5e inter-equipment link

See TCS' complete line of products and services at [www.telecomsys.com](http://www.telecomsys.com).

### Your Established Partner

TCS brings proven, technology problem-solving expertise to its professional service offerings for the public sector. From continuity of operations and information assurance, to cyber security and integrated logistics support, TCS solves the toughest technical challenges, under conditions that demand the highest level of reliability, availability, and security. As an ISO 9000-certified provider with many consultants holding active security clearances, TCS has an established track record over the past decade as a trusted partner providing mission continuity for the Department of Defense, Special Operations, and intelligence communities, the Department of Homeland Security, and the Department of State.

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## Fully Automated Satellite Access

Non-technical users with minimal training can easily set up the SwiftLink DVM-100. Once the hardware is assembled, acquisition and satellite lock is accomplished by the pressing of a single button mounted on the antenna. For configuration changes and diagnostics, a simple hand-held controller is included, or an optional PC-based Graphical User Interface can be connected for in-depth monitoring and control. This automated pointing system does not require specially trained SATCOM personnel or special test equipment.

## Specifications

### Operating Characteristics

Frequency range: Rx 10.95 – 12.75 Tx 14.0 – 14.5 (GHz) (extended band operation optional)

G/T: 18.9 dB/K @ 12 GHz at 30° elevation

EIRP: 55.0 dBW (25-watt BUC)

Transmit power: 25-watt standard (options available)

Polarization: Standard orthogonal (optional co-polar)

Pointing: Azimuth: ±200° from stow

Elevation: 10° - 90°

Standard network characteristics (using iDirect Technologies' satmodem):

- Topology: VSAT Star
- Multiple access: TDM (outbound) and D-TDMA (inbound)
- Modulation: QPSK, 8PSK, and BPSK
- FEC: 0.793, 0.66, 0.879, 0.533, and 0.431
- Data Interface: LAN (RJ45) 10/100 Ethernet

User controls: Hand-held control keypad

### Electrical Power

AC: 90 – 265 v, 50/60 Hz, 500 watts continuous



SwiftLink®  
DVM-100

### Mechanical Specifications

Reflector: 1.0-meter, carbon fiber, four (4)-piece

Positioner: Motorized, auto-acquire

Feed system: Offset, prime focus Ku-band/cross-pol, co-pol optional

Weight and size: Two (2) rugged cases, each 120 lbs (54 Kg) and 27 W x 37 L x 16 H inches (67 W x 94 L x 41 H centimeters)

### Environmental Specifications

Operational wind loading: 20 mph sustained without anchors; 30 mph gusting without anchors; 45 mph with anchors

Operational temperature: +32° F (0° C) to 122° F (50° C)

Humidity: Up to 95% at 25° C, non-condensing

### Field Proven Applications

TCS SwiftLink products are proven and in use in battlefield support and mobile command center applications worldwide.

INFOSEC and COMSEC, via integrated FIPS-140-2, 3DES, AES, or optional NSA Type 1 encryption

Network-centric deployable nodes

Voice, data, and video broadband speeds from 64 Kb/s to 4.2 Mb/s