

*Mission-sensitive communications for military and emergency response teams often require access to high-speed satellite services. Field operators with limited 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 Very Small Aperture Terminal (VSAT) module that is team-transportable and provides fully automated remote access broadband satellite connectivity via a flyaway terminal. Extending IP-based services from your central location, the SwiftLink DVM-100 offers the following key benefits:

- 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

## 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.

## Key Features

- 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

## 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:  $\pm 200^\circ$  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

## 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: + 20° F (0° C) to 122° F (50° C)
- Humidity: Up to 95% at 25° C, non-condensing

## Electrical Power

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

## Field Proven Applications

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

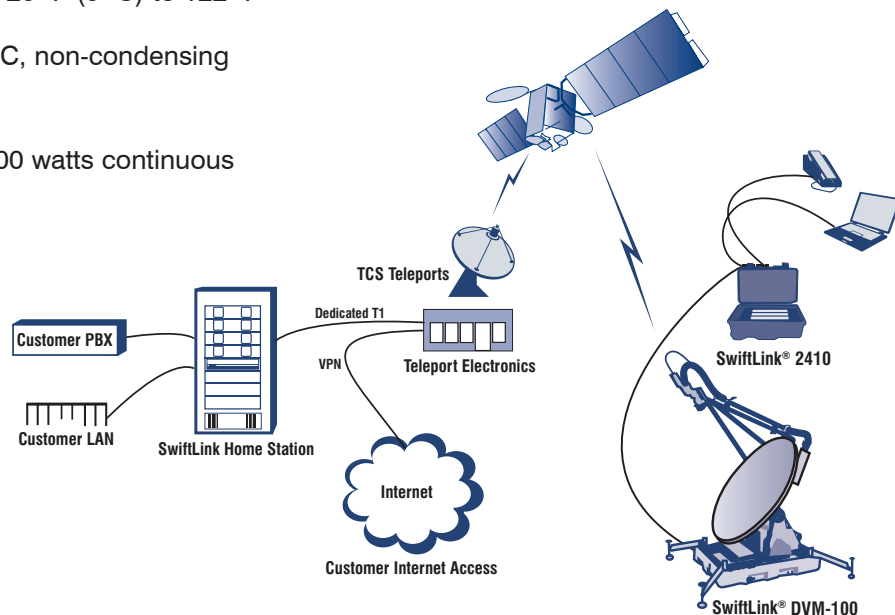
- INFOSEC and COMSEC, via integrated FIPS-140-2, 3DES, AES, or optional NSA Type 1 encryption
- Network-centric deployable nodes
- Voice, data, and video broadband speeds from 64 Kb/s to 4.2 Mb/s

## Your Established Partner

TCS is a leading provider of software and solutions to government customers requiring high reliability and security. TCS has been providing premier IT and wireless communications solutions to the U.S. Government since 1987. SwiftLink is a branded TCS family of products and services that are proven through use by U.S. government agencies, including the Department of State, Department of Defense, and Department of Homeland Security.

## Get Started Now

For a demonstration of the SwiftLink DVM-100 and other SwiftLink products, call 1.800.307.9489 or e-mail us at [SwiftLink@telecomsys.com](mailto:SwiftLink@telecomsys.com). Learn more about TCS' products and services at [www.telecomsys.com](http://www.telecomsys.com).



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