

VDC-850

Compact, USB-Connected Data Controller for Networking Tactical Radios

Data Controllers: Viasat



The ViaSat VDC-850 delivers the Common Operating Picture over your existing combat net radio in a compact, lightweight package with plug-and-play USB connectivity



VDC-850 At-A-Glance

Compact and Lightweight

- Ergonomic design; fits easily into the palm of your hand
- 340 g; lightweight, durable material

USB Connectivity

- High-speed, plug-and-play USB interface

Optimised for Noisy Channels

- Efficient messaging and data sharing over native MIL-STD-188-184 with ViaSat eMail® notes and files application
- Off-the-shelf IP-based application support software (optional)
- Powerful error correction

Combat Comms Enabled Over Radio

- Situational awareness
- Whiteboard collaboration
- Chat
- Messaging
- Email
- Cursor-on-Target interoperable

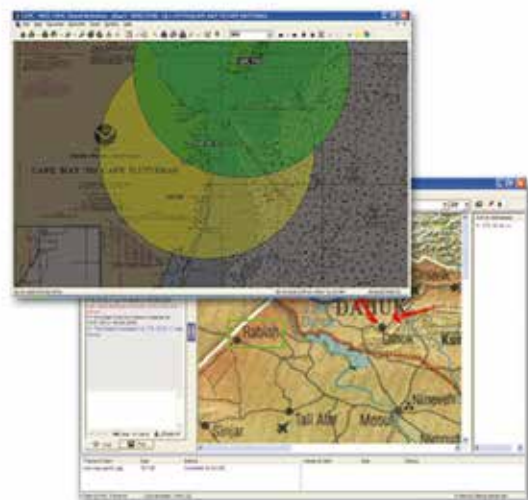
The ViaSat Data Controller 850 (VDC-850) enables secure data networking using any combat net radio and handheld computer. Combat users can quickly connect this ViaSat data controller via USB to send notes and files, and run IP applications over tactical radios.

The ViaSat VDC-850 offers interoperability and flexibility for any kind of tactical mission. It features a powerful error correction algorithm to transmit images and other data over noisy half-duplex, low data-rate radio communication channels.

For error-free data sharing over native MIL-STD-188-184 and noisy radio channels, this data controller includes ViaSat eMail® application software. With an intuitive, streamlined interface, ViaSat eMail application enables warfighters to efficiently and quickly send chats, files, emails, photos, map overlays, and other documents. ViaSat Data Controller IP software is also available for operating IP-based applications (POP3, SMTP, FTP, HTTP, etc.) over tactical radios.

Warfighters can use the ViaSat VDC-850 to transmit Cursor-on-Target core data elements for military interoperability, including direct fire mission, Blue Force Tracking, surveillance results, and airspace deconfliction information.

Lab and field tests have repeatedly verified that ViaSat Data Controllers are the highest-performance system for sending data over tactical radios. Count on the ViaSat VDC-850 to network tactical radios into the Common Operating Picture.



General Characteristics

Operating Modes	Half-duplex Full-duplex Simplex
Channel Rate	Up to 128 kbps
Channel Types	SATCOM LOS HF Wired
Protocol	MIL-STD-188-184
Compatible Devices	AN-CSZ-1A, KY-57/58, ANDVT Tacterm, KY-99/99A/100, KG-84 A/C, KIV-7, STU-III and STE

Interfaces

Data Interface	USB 2.0
COMSEC Interface	MIL-STD-188-114A, RS-232 (single-ended); MIL-STD-188-114A, RS-422 (balanced data & clock only)
COMSEC Data Rates	Up to 128 kbps (synchronous); Up to 1152000 kbps (asynchronous)

Physical Characteristics

Dimensions (WHD)	150 x 30 x 50 mm
Weight	340 g

Power

Power Options	USB Bus Power or External Supply
USB Bus Power	5V, 500 mA (supplied by USB host)
External Supply	8 - 30 V DC
Power Consumption (Typical)	950 mW operation 475 mW auto power down

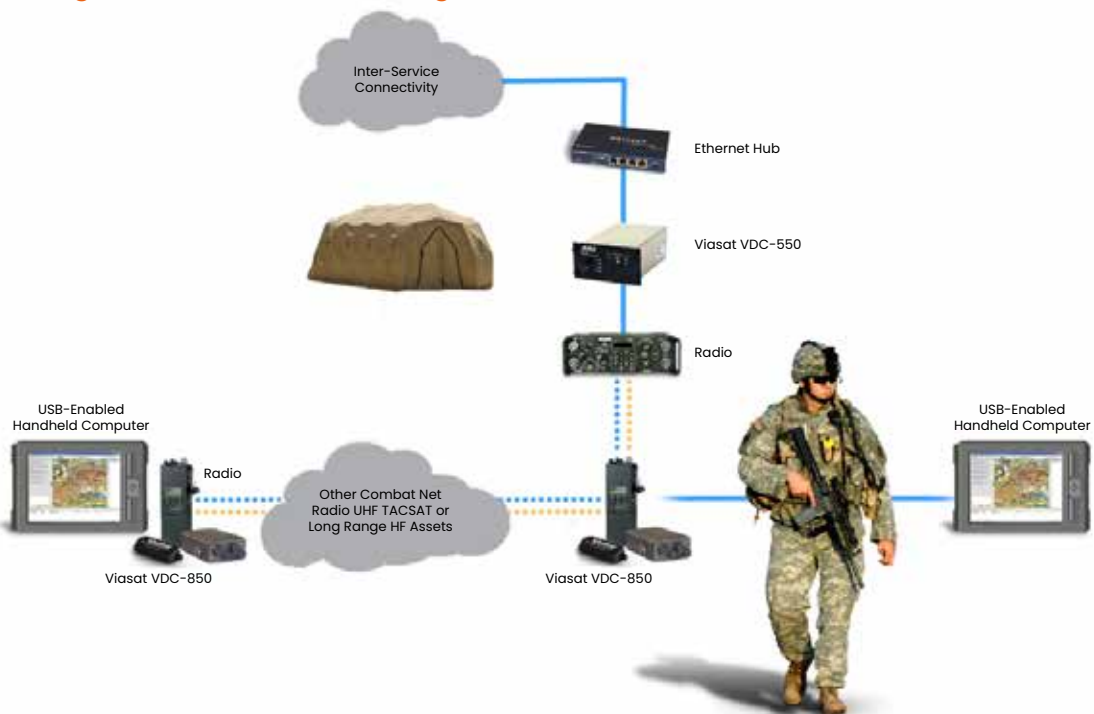
Environmental Specifications

Operational Temperature	- 35°C to + 60°C
Storage Temperature	- 35°C to + 71°C
Immersion	IP-X5 water resistant
Vibration	20 Hz - 2 KHz, 0.06 g ² /Hz; MIL-STD-810F, Method 514.5, Category 24
Shock	40G; MIL-STD-810F, Method 516.5, Procedure I

Operating Systems

Microsoft Windows 2000, XP, Vista and Windows 7 32-bit

Common Operating Picture to the Tactical Edge



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All specifications are subject to change without notice
The information contained herein is for reference only and does not constitute a warranty of performance

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