The Viasat Data Controller 850 (VDC-850) enables secure data interoperability between Legacy UHF Satcom radios and Mobile User Objective System (MUOS) WCDMA radios. 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 is the only MUOS to Legacy Gateway Component (MLGC) approved data controller to offer interoperability and flexibility for any kind of tactical mission. It features a powerful error correction algorithm to transmit data over noisy half-duplex, low data-rate radio communication channels.

For error-free data sharing over MLGC, Viasat uses MIL-STD-188-184 based hardware powered by VDC/IP and ViaBoard software. With an intuitive, streamlined interface, the Viasat VDC/IP communications software and ViaBoard application enables warfighters to efficiently and quickly send group chat, files, emails, photos, map overlays, and other documents.

**VIASAT VDC-850 AT-A-GLANCE**

**Compact and Lightweight**
- Ergonomic design; fits easily into the palm of your hand
- 12 oz; lightweight, durable material

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

**Optimized for Noisy Channels**
- Efficient messaging and data sharing over traditional UHF and WCDMA Satcom channels native MIL-STD-188-184 with Viasat VDC/IP and ViaBoard application software
- Powerful and robust error correction

**Secure Communications Enabled Over UHF Satcom Radio**
- Secure situational awareness access
- Secure whiteboard collaboration applications
- Secure group chat
- Secure SIPRNet/NIPRNet
- Support for 3rd Party IP

**Ordering Information**
- PN: 1189604 VDC-850
- PN: 1355126 VDC/IP Win10 64 Bit Software
- PN: 1288771 ViaBoard Win 10 64 Bit IP Application Software
- PN: 1354602 Generic RS-232 (DB-25)
- PN: 1175460 RS-232 Unbalanced Unterminated
- PN: 1354633 PRC-148
- PN: 1175049 PRC-152
- PN: 1343388 PRC-158
- PN: 1352567 PRC-162
- PN: 1352568 PRC-163

1 Required to access MLGC data
2 Optional end user IP application software for use with both Legacy and MUOS radios
3 A cable to connect the VDC-850 to your specific radio is required
Viasat VDC-850 USB Data Controller

SPECIFICATIONS

GENERAL CHARACTERISTICS

Operating Modes
Half-duplex, full-duplex, simplex

Channel Rate
Up to 128 kbps

Channel Types
UHF SATCOM, UHF LOS, VHF, HF and wired

Protocol
MIL-STD-188-184

Compatible Devices

PHYSICAL CHARACTERISTICS

Dimensions (W x H x D)
5.9 x 1.4 x 2 in.; 150 x 30 x 50 mm

Weight
12 oz

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)

POWER

Power Options
USB Bus Power or External Supply

USB Bus Power
5 V, 500 mA (supplied by USB host)

External Supply
8 to 30 VDC

Power Consumption (Typical)
950 mW operation; 475 mW auto power down

ENVIRONMENTAL

Operation Temperature
-35° to +60° C

Storage Temperature
-35° to +71° C

Immersion
IP-X5 water resistant

Vibration
20 Hz to 2 KHz, 0.06 g²/Hz; MIL-STD-810F, Method 514.5, Category 24

Shock
40 G; MIL-STD-810F, Method 516.5, Procedure I

OPERATING SYSTEMS

Windows 10 and Android

MOBILE USER OBJECTIVE SYSTEM (MUOS) TO LEGACY GATEWAY COMPONENT (MLGC)

CONTACT

SALES
TEL 888 842 7281 (US Toll Free) FAX +1 760 683 6815 EMAIL insidesales@viasat.com

TECHNICAL SUPPORT
TEL 866 659 9702 (US Toll Free) or +1 760 602 5656 FAX +1 760 929 3938 EMAIL noc-carlsbad@viasat.com WEB www.viasat.com/support/data-controllers

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