Data Controller 850

Compact, USB-Connected Data Controller for Mobile User Objective Systems (MUOS) to Legacy Gateway Component (MLGC)

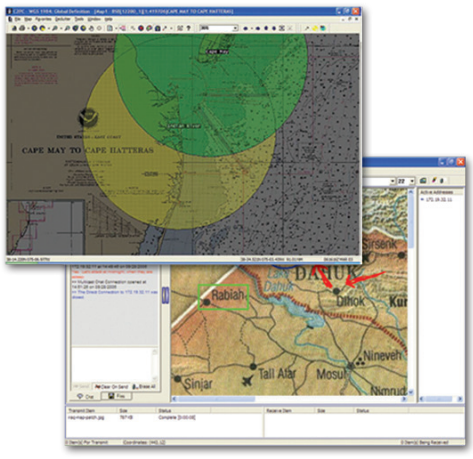
Are You Getting the Picture? (Over Your Legacy SATCOM Terminals Radio)

The Viasat VDC-850 delivers seamless interoperability to the MLGC in a compact, lightweight package with plug-and-play USB connectivity.

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 for tactical UHF SATCOM missions requiring MUOS to Legacy interoperability. 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 UHF SATCOM Channels

- Efficient messaging and data sharing over traditional UHF and WCDMA SATCOM channels using 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[1]
PN: 1355126	VDC/IP Win10 64 Bit Software[1]
PN: 1288773	ViaBoard Win10 64-Bit IP Application Software[2]
PN: 1354602	Generic RS-232 (DB-25)[3]
PN: 1175460	RS-232 Unbalanced Unterminated[3]
PN: 1347904	RS-422 Balanced Unterminated[3]
PN: 1175508	PRC-117G[3]
PN: 1354633	PRC-148[3]
PN: 1175049	PRC-152/152A/158[3]
PN: 1352567	PRC-162[3] Ch 1
PN: 1448100	PRC-162[3] Ch 2
PN: 1352568	PRC-163/167[3]

[1] Required to access MLGC data

[2] Optional end user IP application software for use with both Legacy and MUOS radios

[3] Requires a cable to connect the VDC-850 to your specific radio

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	KY-57M/58M, KY-99M/100M, KG-84 A/C, KIV-7M, AN/PRC-117X, PRC-148, PRC-152X, PRC-158, PRC-162, PRC-163, Viasat RT-18XX Family of Radios, ARC-210 Family of Radios, and Other Legacy UHF SATCOM Radios

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

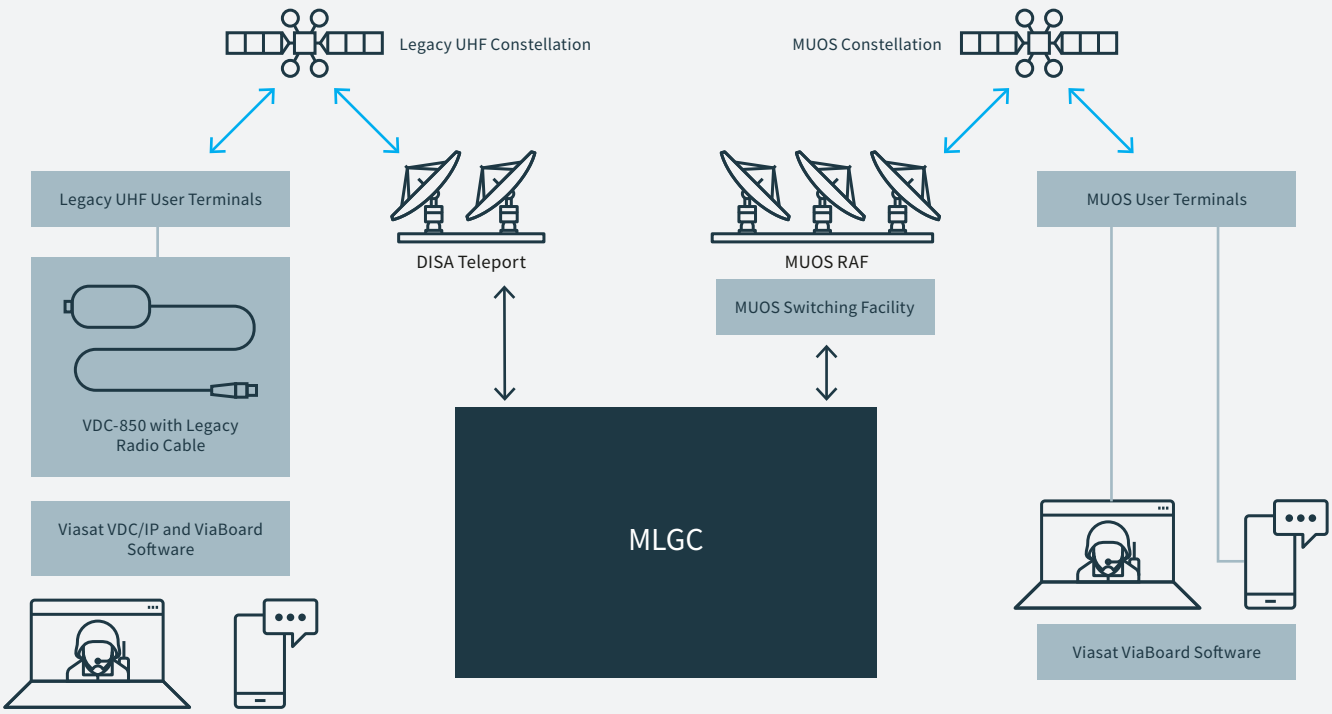
ENVIRONMENTAL

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 g^2/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)



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