

The C-12480/U is the ideal human-machine interface (HMI) for the ViaSat MD-1324(c)/U DAMA modems. Flexible software-based architecture enables this control indicator to meet diverse UHF satcom applications.



RUGGED, FUNCTIONAL DESIGN — FULL CONTROL FOR DAMA AND NON-DAMA MODES

The C-12480/U is a compact unit designed for the demanding military aircraft environment. Form, fit and function have been carefully tailored to simplify UHF DAMA satcom control. A user-friendly menu system provides consistent control and status in MIL-STD-188-181 (non-DAMA), -182 (5kHz DAMA), and -183 (25kHz DAMA) modes. Multiple control indicators can operate in a “master/slave” configuration.

PRESETS FOR AUTOMATION — EDIT USING MENUS OR PCMCIA CARD

Easy-to-edit preset configurations allow for nearly automatic system initializing. For example, a single preset can configure a modem, radio, and ancillary equipment for DAMA operation; initiate net entry; and signal the operator when the terminal is online and ready to use. To enter mission-specific parameters, there are two modes of preset editing. For minimal changes, use the built-in menu system; for more extensive changes, use the convenient PCMCIA storage card slot to import preset information with any PCMCIA-capable off-the-shelf personal computer, and Windows®-based configuration software from ViaSat.

ADJUSTS FOR LIGHT CONDITIONS — EASY-TO-READ, IN BRIGHT LIGHT OR DARKNESS

The control indicator features a display that can be adjusted to changing ambient light. The display can be easily read in any light conditions, including direct sunlight or using night-vision goggles, in compliance with NVG/NVIS MIL-P-7788 and MIL-L-85762 standards. The C-12480/U is the ideal human-machine interface (HMI) for the ViaSat MD-1324(c)/U DAMA modems. Flexible software-based architecture enables this control indicator to meet diverse UHF satcom applications.

BUILT TO MIL STANDARDS — EASILY INTEGRATES INTO AIRBORNE PLATFORMS

The control indicator uses a standard airborne avionics panel mount per MIL-C-6781 (Type 1) and MIL-18012. The five “soft-toggle” controls are aviator glove compatible. Optional interfaces include the MIL-STD-1553B interface for modem control and DS-101 data fill interface.

VC-300 CONTROL INDICATOR — FOR DEMANDING MILITARY AIRCRAFT APPLICATIONS

The VC-300 is a versatile front-end indicator-controller for demanding military aircraft applications. Software-based, it can be easily adapted to various communication hardware and diverse requirements. A developer’s toolkit with multitasking executive and low-level drivers is included for rapid prototyping and low-cost development. Offering flexible hardware and software to fit your applications, the VC-300 Control Indicator is based on the C-12480/U, the standard front-end interface for ViaSat’s MD-1324/U DAMA modem, but can be programmed to control a variety of different hardware. This compact unit fits the demanding military aircraft environment. Form, fit and function have been carefully tailored to simplify operator control.

The VC-300 is a flexible, software-based platform that allows interfaces to be tailored to meet diverse system requirements. Its on-the-fly reprogrammable FPGA-based architecture provides powerful I/O protocol support. A built-in executive provides a true multi-tasking environment, supporting real time applications. Low-level drivers simplify and lessen system development. The hardware is based on the Motorola 68000 for rapid prototyping and low cost. A user-defined daughterboard and back panel allow tailoring of hardware to your system interface requirements.

C-12480/U & VC-300 Control Indicators

SPECIFICATIONS

GENERAL CHARACTERISTICS

	C-12480/U	VC-300
Presets	99, selectable using rotary control	
Data Transfer	PCMCIA Type I or II card	PCMCIA Type I or II card
Power Control	Discrete NVIS-compatible switch (can also control modem power)	Discrete NVIS-compatible switch (can also control modem power)
Option		Second discrete NVIS-compatible with user defined-function and legend
Soft Keys	Five toggle switches with up/down control	Five toggle switches with up/down control
Rotary	Non-stop, 16 position rotary knob	Non-stop, 16 position rotary knob
Light Sensor		Monitor ambient light

INTERFACES

	C-12480/U	VC-300
Modem Control	MIL-STD-188-114	
Daisy Chain	MIL-STD-188-114	
Power Source	MIL-STD-704A 16 to 30 VDC (28 VDC nominal)	MIL-STD-704A 16 to 30 VDC (28 VDC nominal)
Input/Output Options	MIL-STD-1553B DS-101 data fill	Serial MIL-STD-1553B DS-101 data fill ARINC 429

(As determined by daughterboard and back panel configuration)

PERFORMANCE CHARACTERISTICS

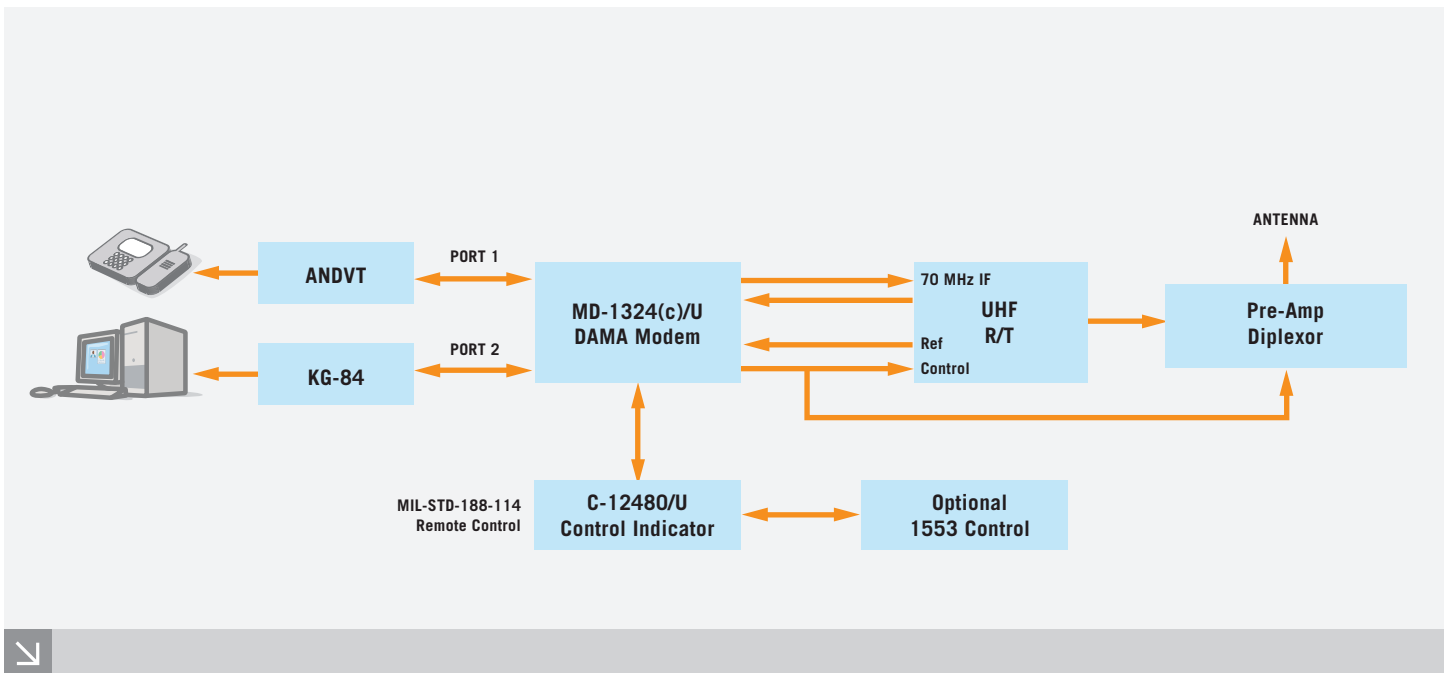
Luminance Control Viewable under ambient conditions up to 10,000 foot-candles
Glare Source Up to 2,000 foot-candles
Contrast Ratio Per MIL-L-85762
Angle of View > 60°

PHYSICAL CHARACTERISTICS

Dimensions (WHD) 5.75 x 3.375 x 4.5 in
Weight < 3 lbs
Volume 100 cubic in
Mount DZUS

ENVIRONMENTAL/EMI

Operation Temperature -40° C to +55° C (+71° C intermittent)
Storage Temperature -57° C to +85° C
Humidity 100% condensing
Altitude 0 to 15,000 ft (MIL-STD-5400 Class 1B)
Shock, Crash Safety MIL-STD-5400
Vibration MIL-STD-5400 (fixed and rotary wing craft)
Cooling Natural convection cooled (no forced air)
EMI MIL-STD-461, 200 V/m



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