

E110A

MIL-110A/B HF Modem

- **MIL-STD-110A and MIL-STD-110B High Speed Data Waveforms**
- **Integrated with ALE for Assurance of Good HF Channel**
- **Two Messaging Programs**
- **Up to 9600bps Data Rate**
- **Hardware Protection Key**
- **Used in Datron's Integrated DT110 Notebook Terminal**
- **PCI Card for use with Appropriate Customer's Computer (generally, a desktop)**
- **Datron Offers both Professional and Military Systems Complete with HF Radios, all Options, DatronLINK software, and Connecting Cables**

The E110A is a high-speed HF modem using proven Military standard waveforms (compliant to MIL-STD-188-10A/B) to provide reliable, rapid, and accurate data transmission. Each modem consists of a PCI card, designed to be embedded inside a standard PC (generally a desktop) having appropriate performance capabilities.

The E110A can be used with either of two proprietary software programs. One is a simple data software program that provides point-to-point messaging capability, while the other is Datron's proprietary DatronLINK software program. In addition to providing network administration and messaging capabilities, DatronLINK provides a means for both optimizing the E110A modem's over-the-air data rate and determining what data was received correctly. The system uses a proven ARQ protocol that enables the system to send and receive error-free data while simultaneously optimizing the data rate to existing HF channel conditions. The modem is capable, under the right conditions, of error-corrected data rates up to 9600bps.

When using the E110A with the DatronLINK software, seamless integration into existing TCP/IP networks is possible to allow a user to send and receive messages, e-mail, or images over HF radio. The system is so transparent that training requirements are negligible and users will not even be aware that there is an HF radio link.

The E110A can be used in either a professional or a Military system configuration. In both cases, the modem card is inserted into the appropriate terminal (if a desktop computer is used, a separate COM port is required for the HASP Key). For tactical or on-the-move applications, Datron offers its DT110 integrated computer system, which contains the E110A version of the MIL-110A/B modem and connects directly to the associated HF radio.

Datron offers applications information on request for E110A use with its TW7000 and its RT7000 HF transceivers. See the DT110 data sheet for more information on Datron's self-contained, integrated computer/modem system.

SPECIFICATIONS (E110A HF Modem)

Modem Specifications

Waveforms	<ul style="list-style-type: none">MIL-STD-110A, 75 – 2400 bps (with error correction)MIL-STD-110B, 3200 – 9600 bps (with error correction)
Modulation	FSK, PSK
Construction	PCI card
Audio Levels	0 dBm, 600 ohms
Data Levels	RS232

Modem Equipment (E110A)

Modem	PCI CARD
HF Radio Interface	Direct connection to radio from computer

Computer Requirements

Processor	Pentium, 500 MHz or greater
Memory	256MB, minimum
Storage	10GB HD, minimum; removable FDD and CD-ROM Drive
Interface (desktop computer)	PCI Slot

System Requirements

HF Transceiver	Works seamlessly with Datron's 7000-series HF radios, using the 7000ALE & 7000WB1 options
Network Software	DatronLINK, when installed on the appropriate terminal, automatically controls the operation of the HF radio, its ALE system, the HF modem, and all network parameter programming, LAN connectivity, and messaging
HF Modem	E110A – either embedded in appropriate customer computer or as part of Datron's DT110 integrated Terminal
Hardware Protection Key	HASP Key; connects to appropriate port on computer.

Note: All specifications subject to change without notice.



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