

DatronLINK-2

HF E-mail and Network Management Software

TACTICAL
NETWORKING



DatronLINK-2 is Datron's next generation HF E-Mail and messaging application designed to automate message and file transfers over radio links, as well as to provide an E-mail gateway between the HF radio network (WAN) and the Intranet/Internet (LAN). The application can be used on appropriate laptop or desktop computers with Datron's RT7700 software defined radio and with the E110A MIL-STD-188-110A/B HF modem used with the Datron 7000-series radios.

With DatronLINK-2, the user can exchange E-mail, faxes, files, and keyboard chat messages. In addition, DatronLINK-2 fully manages the attached radio sub-system including core radio and ALE functions. The application can be used for HF ALE network management, data transmission, message store and forward, chat mode, parallel broadcast modes, and other networking applications.

DatronLINK-2 is a 32-bit Windows-based application with user screens conveniently arranged into configuration and communication menus that provide a user-friendly operator interface. As required, security is assured via its support for Microsoft API-compliant encryption. This application supports secure and unsecure POP3/SMTP mail servers and can be run in Microsoft Windows XP SP3 (32-bit), Windows Vista and Windows 7 (32 bit and 64 bit) environments.

DatronLINK-2 provides automatic station linking with selection of best channel using the integrated MIL-STD-188-141B modem in the RT7700, and the optional 7000ALE and 7000ALE-141B modems in our 7000-series radios. In addition, DatronLINK-2 provides fully automatic message relaying and alternate path selection that is transparent to the user.

In addition to providing network administration, gateway, and messaging capabilities, DatronLINK-2 provides a means for optimizing the modem's over-the-air data rate and verifying that data is 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.

- Integrated Radio and HF Network Control
- POP3/SMTP & Text Messaging Software
- Intranet/Internet, LAN connectivity
- Supports Datron's RT7700 and TW/RT7000 series radios
- Supports MIL-STD-110A/B HF MODEM up to 19.2 kbps (ISB)
- Step-Up/Step-Down Auto-Adaptive Data Protocol
- Multiple Network Applications – Chat, Relay, Link Recovery Modes
- Tactical Mode – Manual Override and Control of Messaging
- Parallel Broadcast Modes
- Support in "Fixed Frequency" and ALE Modes
- Support for "Radio Voice Mode"
- Parallel Multicast – Polled ARQ and non-ARQ Modes



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Certification # 08.347.1
ISO 9001:2008
Registered Quality System
Datron World Communications, Inc.

APPLICATION

1. CHAT MODE

Description

Allows communication between two users via a computer. Once Chat Mode is initiated, either user enters text by typing on the keyboard. Supports Latin and non-Latin character sets and uses either the ALE Modem's AMD messaging scheme or the MIL-STD-110B modem.

2. RELAY MODE

Fully configurable and automatic message relaying is accomplished by creating alternate paths between stations in a network. Each station sets its own relay path, e.g., a user at Station 1 can set up a path to send a message to Station 2 via Station 3. Once the alternate relay paths are defined, no operator intervention is required. If conditions prohibit a message from getting through using a direct path, DatronLINK-2 automatically selects an alternate path.

3. LINK RECOVERY

DatronLINK-2 automatically resumes interrupted file transfers from the point of interruption.

4. LAN CONNECTIVITY

DatronLINK-2 allows transparent E-mail communications between users on separate LANs via a radio link. Integration of DatronLINK-2 into the LAN is done with automatic routing through the LAN or WAN. The program supports POP/SMTP (secure and clear).

OTHER FEATURES

1. E-MAIL

Description

DatronLINK-2 includes a complete mailbox feature, organized by station and user, with automatic routing and forwarding. Messages may include attached files, images or fax data. Fully unattended operation is possible. Provision for multi-level passwords assures complete message confidentiality.

2. FLEXIBLE FILE TRANSFERS

DatronLINK-2 has been developed primarily to provide low cost, long-range communications via HF. The program can exchange any type of binary or UNICODE ASCII data file.

SPECIFICATIONS

- SOFTWARE
- DATA TYPES
- DATA SOURCES
- MESSAGING TYPE

Microsoft Windows™

Text, binary, and image files, language independent

Keyboard (on-line), disk, Ethernet, radio link

Automatic Message/file forwarding, individual user routing with Manual Override (Tactical Mode)

- E-MAIL
- SUPPORTED ALE

POP3/SMTP (Secure and Clear)

MIL-STD-188-141B ALE. Backwards compatible with FED-STD-1045A ALE

- BROADCAST MODES
- RADIO CONTROL
- COMSEC

Reliable Multicast and Parallel Broadcast modes

Manages Datron's TW/RT7000 and RT7700 Series HF radios

Integrated AES encryption when used with Datron's RT7700. Also supports the operating system's embedded encryption capabilities or any Microsoft Compliant API for both the TW/RT7000 and the RT7700.

COMPUTER REQUIREMENTS

- PROCESSOR Minimum Dual-core, Intel or AMD processor, 1.2 GHz or better
- MEMORY 2GB memory (4 GB minimum for 64 bit operating systems)
- STORAGE DEVICES 100GB+ HDD and CD-ROM Drive (minimum)
- PORTS 1 COM port (when used with the TW/RT7000), 1 Ethernet Port, PCI slot (desktop) for use with integrated plug-in modem
- O/S Windows XP SP2+, Vista SP2+ and 7 Professional SP1+
- OPTIONAL INTEGRATED HARDWARE DT9400 ruggedized laptop for use with the 7700-series radios, or DT110 ruggedized laptop with E110A (integrated MIL-STD-188-110B HF Data MODEM), interface and DatronLINK-2 software for use with the 7000-series radios.

* Subject to export regulations

Specifications subject to change without notice -rev 111128

Made in the USA



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