**Datron World Communications Inc.**

# DATRONLINK
## HF E-Mail and Messaging Software

- **Integrated Network Control**

- **E-Mail and Messaging Software**

- **Internet, LAN Connectivity**

- **HF Radio Configurations**

- **Supports MIL-STD-110A/B HF Modem**

- **Automatically uses API-Compliant Encryption**

- **Adaptive Data Transmissions**

- **Multiple Network Applications – Chat, Relay, Link Recovery Modes**

- **Complete Mailbox Feature**

- **Broadcast Mode**

DatronLINK is a custom HF E-Mail and messaging program designed to automate message and file transfers over radio links, as well as over LANs and through the Internet, and can be used with an appropriate data terminal, modem, and transceiver to provide the user the ability to completely configure a data network and transfer data files over the air.

DatronLINK is a completely modular program, making customization for user requirements simple. The program automatically adjusts to the user's Microsoft API-compliant encryption. It is used for network administration, data transmission, message store and forward, chat and broadcast modes, and other networking applications. DatronLINK is Windows-based, with user screens conveniently arranged into configuration menus normally used by a network administrator, and communication menus that provide the user-friendly operator interface.

DatronLINK can be used for both station-to-station and station-to-multi-station operation, and has high-level adaptive data compression for faster throughput. However, its primary application is in a station that must fulfill network gateway functions, as it allows access to the Internet and E-mail services, and provides automatic relay capability. It works with FED-STD-1045A/MIL-STD-188-141 automatic link establishment systems (ALE) to allow automatic selection of the best frequency of operation for the communications link.

Complete **integrated network control** is provided since equipment configuration and message handling tasks are together in one easy-to-use software package. DatronLINK is specially configured to coordinate the operation of a Datron 7000-series transceiver, MIL-110B modem, and companion data terminal. Messages may be entered by the operator via the keyboard, disk, serial interface or optional LAN interface. After indicating the address of the receiving network station and prescribed message routing, transmission (and relay operation, if applicable) is fully automatic. The receiving station automatically compresses, decodes and dispatches the message to the control operator, disk, LAN, or output device. DatronLINK's mailbox feature provides automatic message forwarding and individual user routing.

Used in conjunction with DatronLINK, the E110 and E110A are high-speed HF modems using proven MIL-STD-110A/B waveforms to provide reliable, rapid, and accurate data transmission. The E110 is built on a Type II PCMCIA card and is designed to be embedded inside the same notebook terminal that is running the DatronLINK software, while the E110A is a PCI card meant to be used in standard desktop terminals.

In addition to providing network administration and messaging capabilities, DatronLINK provides a means for optimizing the 110 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.

## DatronLINK Network Applications

| Application | Description |
| --- | --- |
| 1. Chat Mode | Allows communication between two users via a computer. Once Chat Mode is initiated, either user enters text by typing on the keyboard. |
| 2. Relay Mode | Fully automatic message relaying is done 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 automatically selects an alternate path. |
| 3. Link Recovery | DatronLINK automatically resumes interrupted file transfers from the point of interruption. |
| 4. LAN Connectivity | DatronLINK allows transparent communications between users on separate LANs via a radio linjk. Integration of DatronLINK into the LAN is done with automatic routing through the LAN or WAN. The program presently supports POP/SMTP and Novell MHS servers. |

## Other Features

| Feature | Description |
| --- | --- |
| 1. Mailbox | DatronLINK 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. Multi-media | DatronLINK has been developed primarily to provide low cost, long-range communications via HF. The program may be extended to multimedia operation, since interface to and communications through a wide variety of media, including VHF radio for line of light links, Internet operation through a TCP/IP interface providing transparent SMTP and FTP routing, and PSTN modem interface, is provided. It also allows messages to be automatically transferred from one medium to another |

## SPECIFICATIONS

**Modem**

| | |
| --- | --- |
| Waveforms | • MIL-STD-110A, 75 – 2400 bps (w/error correction) |
| | ▪ MIL-STD-110B, 3200 – 9600 bps (w/error correction) |
| Modulation | • FSK, PSK |
| Construction | • Type II PCMCIA card (E110) or PCI Card (E110A) |

**Software**

| | |
| --- | --- |
| Operating System | • Windows-based; Windows 95/98/NT |
| Data transfer | ▪ Text, binary, and image files |
| Data Sources | ▪ Keyboard (on-line), disk, serial interface |
| Mailbox | ▪ Automatic Message/file forwarding, Individual user routing |
| ALE | • FED-STD-1045A compliant; MIL-STD-141A compatible |
| Broadcast Mode | • Simultaneous Transmission of data to multiple stations |
| Radio control | • Complete control of 7000 Series HF transceivers |

**Computer Requirements**

| | |
| --- | --- |
| Processor | • Pentium, 5000 MHz or greater |
| Memory | • 256MB, minimum |
| Storage | • 10GB HD, removable FDD and CD-ROM Drive |
| Ports | • 1 COM port, PCI slot, Type-1 PC card |
| O/S | • Windows 2000 or XP |

**Note: All specifications subject to change without notice.**

**Datron world Communications, Inc.**

3030 Enterprise Ct.  .  (760)-597-1500 (ph.)
Vista, CA 92081  (760)-597-1510 (fax)
www.dtwc.com  sales@dtwc.com