

3

OMNI Application Note

Title: OMNI Secure FAX
Date: February 6, 2004
Revision: 1

1. Overview

Connecting an OMNI to a secure FAX that has a digital RS-232 port will provide the ability to send and receive Type 1 secure facsimiles. An OMNI to OMNI or OMNI to STE secure data call will send the FAX over the PSTN network using type 1 encryption. Refer to figure 1 for a typical setup.

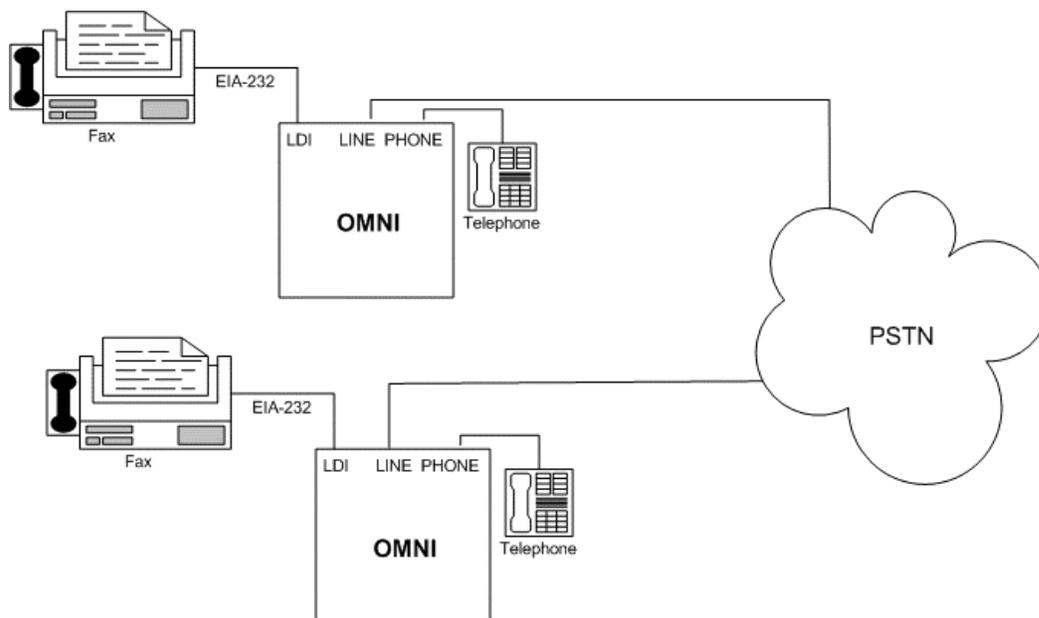


Figure 1

Note: You cannot send a non-secure facsimile with this setup.



3

2. Prerequisites

The following list details the items needed to setup the OMNI for sending and receiving secure facsimiles.

Provided:

- OMNI – K10048240 – 5xx (Rel 2.5) / K10049663 – 5xx (Rel 3.0)
- Adapter Cable – K10048260-1 (Rel 2.5) / K10048260-4 (Rel 3.0)
- Host Line I/O cable – L-COM P/N SP8356
- OMNI Users Manual – K10048254-3 (Rel 2.5) / K10048254-4 (Rel 3.0)

Not Provided:

- Secure FAX Machine with a digital interface – example: Ricoh SFX3900M or SFX3900MI
- Telephone
- 25 pin Gender changer for adaptor cable

3. Quick Start Setup (Both OMNI Attended)

- Configure the OMNI for PSTN-ASYNC and a data rate of 38400bps.
- Remove the handset and dial the number of the phone connected to the far-end OMNI.
- At the far-end answer the call.
- At either OMNI press the “sec data” button.
- After the call is established load the document to be faxed into the FAX machine.
- Press start on the FAX machine.
- When the facsimile is received press “non sec” on either OMNI.
- You may now talk to the person who sent the facsimile and confirm proper reception.



3

4. Detailed Setup

Refer to the Securefax User Guide for programming and loading of DI (digital interface) modes into the FAX machine. The FAX machine should be programmed to the following parameters:

- Asynchronous mode
- Line Speed = 38400
- Timeout = 30 seconds
- Line Delay = 0 seconds
- Duplex Modem = FULL
- Compression = MR
- Flow Control = RTS/CTS
- Break = NO

Connect the OMNI to the FAX machine as shown in Figure 1.

- Using the 25 pin Gender changer (if required) and the Adaptor Cable (K10048260-4) connect the RS-232 port on the FAX to the LDI port on the OMNI.
- Connect the local phone to the Phone connector on the OMNI.
- Using the Host Line I/O cable (L-COM P/N SP8356) connect the OMNI Line connector to the network (the phone jack that the phone was connected to).

Refer to the OMNI User's Manual (K10048254) and configure the OMNI as follows for attending the received facsimile:

- Power on the OMNI and wait for the Enter Pin prompt
- Enter your pin and press the Enter Button
- When the OMNI displays LOGON SUCCESSFUL PRESS ENTER, press the Enter button
- Press the Menu button
- Press 2 (OMNI CONFIG) and press the Enter button
- Press 2 (SET NETWORK) and press the Enter button
- Set the network for PSTN ASYNC by pressing 1 and the Enter button



3

- Press the Back button
- Press 6 (SET RATE) and the enter button
- Set the rate for 38.4kbps by pressing 8 (ASYNC, 38.4) and the Enter button
- Press the Back button
- Press 8 and then the Enter button
- Set the Ring Count to zero by pressing 0 then Enter.
- Press the Menu button to put the OMNI back into the Online state

For Unattended reception of facsimiles:

- Power on the OMNI and wait for the Enter PIN prompt
- Enter your pin and press the Enter Button
- When the OMNI displays LOGON SUCCESFUL PRESS ENTER, press the Enter button
- Press the Menu button
- Press 2 (OMNI CONFIG) and press the Enter button
- Press 2 (SET NETWORK) and press the Enter button
- Set the network for PSTN ASYNC by pressing 1 and the Enter button
- Press the Back button
- Press 6 (SET RATE) and the enter button
- Set the rate for 38.4kbps by pressing 8 (ASYNC, 38.4) and the Enter button
- Press the Back button
- Press 8 and the Enter button
- Set the Ring Count to desired number of rings and then press Enter.
- Press the Back button twice
- Press 3 then the Enter button to access Security Settings
- Press 3 then the Enter button to access SACS Data
- Press 4 then the Enter button to access the ACL Data menu
- Press 1 then the Enter button to enable the Data ACL
 - Note: The ACL must have entries to be enabled and must be enabled for Auto Answer mode.
 - See the OMNI User Manual for instructions on how to load the ACL.
- Press the Menu button to put the OMNI back into the Online state



3

For Sending and Receiving a Facsimile Attended:

- Remove the handset and dial the number of the phone connected to the far-end OMNI.
- At the far-end answer the call.
- At either OMNI press the “sec data” button.
- After the call is established load the document to be faxed into the FAX machine.
- Press start on the FAX machine.
- When the facsimile is received press “non sec” on either OMNI.
- You may now talk to the person who sent the facsimile and confirm proper reception.

Sending and Receiving a Facsimile Unattended:

- Remove the handset and dial the number of the phone connected to the far-end OMNI.
- After the call is established load the document to be faxed into the FAX machine.
- Press start on the FAX machine.
- When the facsimile has completed transmission you may hang up the phone.

5. Reference

If unsuccessful at sending a facsimile, contact L-3 Communications Systems East Tech Support at 1-800-339-6197 (toll free) or 1-856-338-6207 (outside the US).