



# CDM-710/710L Modem

## Release 4.1.10

### Software Release Notification

## Release 4.1.10 for CDM-710/710L Modem

Applicability
Bulk release 4.1.6 (FW12437xx) for CDM-710 and CDM-710L Modems.

Revision History			
Rev #	Description	Date	Prepared by
-	Initial Release, version 2.1.1	10/16/2006	
A	Initial Release, version 2.2.1	12/8/2006	
B	Initial Release, version 2.3.1	2/2/07	
C	Initial Release, version 2.3.2	3/29/07	
D	Initial Release, version 2.3.3	4/24/07	
E	Initial Release, version 2.4.1	5/25/07	
F	Initial Release, version 2.4.2	6/8/07	
G	Initial Release, version 2.5.1	7/19/07	
H	Initial Release, version 3.0.1	8/30/07	
J	Initial Release, version 4.0.1	11/05/07	
K	Initial Release, version 4.0.2	11/21/07	
L	Initial Release, version 4.1.1	2/25/08	
M	Initial Release, version 4.1.2	4/18/08	
N	Initial Release, version 4.1.3	10/30/08	
P	Initial Release, version 4.1.4	3/12/09	
R	Initial Release, version 4.1.5	9/15/09	
S	Initial Release, version 4.1.6	7/8/10	
U	Initial Release, version 4.1.7	7/10/13	
W	Initial Release, version 4.1.9	01/29/14	
Y	Initial Release, version 4.1.10	06/26/14	

FSCM No. 4J515

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## Introduction

Release 4.1.10 consists of a firmware update of the CDM-710/710L. Corrects a problem with fan alarms.

Release 4.1.9 consists of a firmware update of the CDM-710/710L. Corrects a problem where enabling/disabling Test Mode CW or 1,0 would interfere with the demodulator.

Release 4.1.7 consists of a firmware update of the CDM-710/710L. If a Gigabit Interface is used, use of CDM-710/710L modem with Release 4.1.7 requires a Gigabit Ethernet Interface with firmware version 1.1.2 or higher.

# CAUTION!!! No Going Back To Revisions Before 4.0.1

Please note that the upgrade from an earlier version to 4.0.x is a one way upgrade path. Once an upgrade to 4.0.1 (or greater) is completed it is no longer possible to revert to earlier versions. If reflash to an earlier version is attempted the modem will detect and disallow it as a protective measure.

This one-way effect was necessary because of a reallocation of the internal memory for additional space results in an incompatibility between releases beginning with 4.0.1 and all earlier versions.

In addition, Upgrading to/from version 4.1.1 or later from an earlier version require the following procedures:

When upgrading from a previous version to version 4.1.1 please follow the upgrade method below:

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- 1) Start with pre 4.1.1 version in both images
- 2) Upgrade one image
- 3) Switch images
- 4) Reboot the modem
- 5) Upgrade the opposite image
- 6) Reboot the modem
- 7) Switch images
- 8) Reboot the modem once again

When downgrading from 4.1.1 to a previous version:

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- 1) Must start with 4.1.1 or later in both images
- 2) Program the lower version of firmware into one of the images
- 3) PRIOR TO REBOOTING, switch to the other image
- 4) Reboot the modem
- 5) Program the lower version into the opposite image

NOTE: If the modem is rebooted without switching images (step 3), simply put both images back to the higher version and start over

## Software Release Notification

Upgrading from 4.1.1 to 4.1.2 uses the normal upgrade procedure.

When upgrading from a version prior to 4.0.1 to 4.1.1 or later, please upgrade to 4.0.1 in both images prior to upgrading to 4.1.1. Please use the steps outlined above.

### New Features

- a) Added manual redundancy mode.
- b) Added serial+Ethernet support

### Bug Fixes

N/A

### Compatible SNMP MIBS

MIB Name	Filename	Date
<b>CDM-710 CEFD Root MIB</b>	FW10874-2-.mib	11/23/2005
<b>CDM-710 MIB</b>	FW12438-2B.mib	11/3/2009
<b>CDM-710 Traps MIB</b>	FW12438-3A.mib	10/12/2006

### Known Issue(s) In This Release

1. There are known SNMP issues with the core software that were found in other products. This release was past the point of being able to fix it, however it will be addressed in a future release as required.
2. The operation of the GBEI statistics intermittently does not update; this will be corrected in the next release. This does not hinder Gigabit traffic, only the statistics.
3. When loading 4.0.2 into CDM-710 units with 2.4.2 or earlier loads, the modem settings, IO settings, and internal frequency adjustment will not be preserved. Therefore, it is highly advisable to record critical settings before loading 4.0.2 into the unit for easy reference for manual re-entry after 4.0.1 has been loaded.

Note that the most critical setting is the Internal 10MHz Reference Frequency Fine Adjustment. Record this setting prior to loading the modem with 4.0.2, and re-enter it after 4.0.2 has been loaded.

The Internal 10MHz Reference Frequency Fine Adjustment can be located on the front panel:

<main menu> -> Util -> Ref -> Internal 10MHz Reference Frequency Fine Adjustment

If this precaution is not observed, the internal reference is adjusted (Modulator or Duplex units) by:

Allow the unit to stabilize at ambient temperature (10-30 minutes)  
Program the Tx carrier to 0070.0000 MHz (1000.000000 MHz for L-Band)  
From the Test Mode menu select CW carrier  
Connect a counter accurate to 0.1 Hz at 70 MHz (or L-Band) to the Tx IF connector

From the Utility Ref menu adjust the carrier to 70.000000 MHz +/- 5 Hz and press Enter.  
(For L-Band adjust within +/-71 Hz)

Return the carrier to a normal modulated carrier for operation

If this precaution is not observed, the internal reference is adjusted (Demodulator units) by:

Allow the unit to stabilize at ambient temperature (10-30 minutes)

Connect a counter accurate to 0.1 Hz at 10 MHz to J6-8 or J6-9

From the Utility Ref menu adjust the carrier to 10.000000 MHz +/- 0.7 Hz and press Enter.

Return the carrier to a normal modulated carrier for operation

4. SNMP is not supported for the HSSI interface or Pilot level; this shall be supported in a future release.
5. Configuring the GBEI egress destination IP address for media packets via remote command intermittently does not work correctly. As a workaround, configure this parameter from the front panel. This shall be corrected in an upcoming release.

If assistance is needed contact Comtech EF Data Customer Support: 480-333-2089.