

CDM-750 Version 1.6.5 Release

Rev #	Description	Date
-	Initial Release version 1.1.1	02/04/10
A	Release 1.1.2	05/04/10
B	Release 1.1.3	07/08/10
C	Release 1.1.4	07/19/10
D	Release 1.2.1	09/08/10
E	Release 1.2.2	09/30/10
F	Release 1.3.1	11/05/10
G	Release 1.4.1	01/27/11
H	Release 1.4.2	04/05/11
J	Release 1.4.3	07/07/11
K	Release 1.4.4	09/28/11
L	Release 1.5.0	11/11/11
N	Release 1.5.1	03/06/12
P	Release 1.6.0	05/22/12
R	Release 1.6.1	08/27/12
T	Release 1.6.2	11/09/12
U	Release 1.6.3	03/25/13
V	Release 1.6.4	05/19/13
W	Release 1.6.5	11/19/13

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Introduction

Release 1.6.5 includes support for the Automatic UpLink Power Control Feature. (AUPC)

Features

When selected, this feature permits a local modem to adjust its own output power level in order to attempt to maintain the Eb/No at the remote modem.

Issues Addressed In This Release

None

Compatible SNMP MIBs

MIB Name	Filename	Date
CDM-750 MIBS	FW-0000340F_1_2_5.mib	11-19-2013
CDM-750 TRAPS	FW-0000341B_1_1_3.mib	04-06-2011
Root MIB	FW-10874-2-.mib	

Known Issue(s) In This Release

None

Software Release Notification

Previous Releases

Release 1.6.4

Release 1.6.4 includes support for the Receive Transmit Inhibit Feature (RTI)

Features

RTI means Receive/Transmit Inhibit. When selected, it will prevent the Tx carrier from being transmitted until the demodulator is locked. To avoid the Tx Carrier from being turned off when the demodulator loses lock for a very short period of time, the demodulator must be unlocked continuously for the selected time period (1, 2, 4, 7 or 10 seconds) before the transmit carrier is inhibited.

TXO: 0 – OFF, 1 – ON, 2 – RTI-01s, 3 – RTI-02s, 4 – RTI-04s, 5 – RTI-07s, 6 – RTI-10s

The RTI selection is available on the Front Panel, Remote Interface, SNMP and Web.

The TXO RTI Feature and CnC are mutually exclusive.

Issues Addressed In This Release

Corrects a problem with the SNMP Community Strings.

Fixed a problem with SNMP Read, Write and Trap Community Strings. These Community Strings have been restricted to 16 bytes maximum length. This restriction applies to the Front Panel, The Remote Control Interface, SNMP and the Web.

If you are using Release 1.6.3 or an older version, then be sure to restrict the length of the following Community Strings to 16 bytes:

- Read Community String
- Write Community String
- Trap Community String
- From the Web Interface, select the Admin tab and then the SNMP tab. Restrict the length of the SNMP Name string to 16 bytes.

The Set Trap Community (STC) remote command is not documented in the Users Manual.

STC – Set or Get the SNMP Trap Community String.

Example: <1/STC=comtech where the maximum length of this string is 16 bytes.

Release 1.6.3

Corrected a problem with Flow Control (pause frames) in 100 Meg Full Duplex Mode.

Release 1.6.2

Corrected a software issue with compression.

Release 1.6.1

Release 1.6.1 includes support for multi-stream mode.

The CDM-750 is now equipped to handle multiple simultaneous data sources and data destinations. This mode of operation is called multi-stream mode. The best practice for entering into or exiting out of multi-stream mode is to follow certain procedures.

Here are the steps required to enter into multi-stream mode:

Step 1: Disable both PIIC 1 and PIIC 2 interfaces. (G.703, OC-3, etc.)

Step 2: Enable at least one Ethernet interface, For example, Set GBEI1 to AUTO

Step 3: Configure the modems TX symbol rate, TX modcod, TX framing and TX pilots so that the resulting data rate is higher than the minimum data rate of the required services needed. Note, multi-stream mode requires that the minimum DR is at least the sum of the synchronous DR services plus approximately 5% overhead (Example PIIC1=E3 and PIIC2=T3 ... this equates to (34.368Mbps + 44.736Mbps) times 1.05 for overhead or equal to a minimum of 83.060Mbps) . Any data rate above this figure is acceptable and will be allocated to the Ethernet enabled interfaces.

Step 4: Enable one or more piic interfaces and at least one Ethernet interface. Note: minimally one Ethernet interface should already be enabled per step 1. (For example, Set PIIC1=E3 and PIIC2 =T3).

If you are upgrading to release 1.6.1 from a previous release and want to operate the modem in single-stream mode, then perform the following steps:

From the front panel, go to the Interface Menu:

Step 1: Set BOTH PIIC1 and PIIC2 interfaces to be turned off.

Step 2: Set GBEI1 to Off

Step 3: Set GBEI2 to Off

Step 4: If you have an Optical Ethernet Interface installed, then Set it to Off or NONE.

Ethernet is now in-active and you can proceed to Enable one PIIC interface: (Assume PIIC1 Interface)

Step 1: Enable PIIC1 interface by selecting a service (For example, PIIC1=E3)

The modem is now operating in single-stream mode (synchronous mode).

If you wish to Enable Ethernet mode, you must first:

Disable PIIC1 and PIIC2 interfaces (Set To NONE)

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Ethernet can now be made active by setting any of the GBEI interfaces to something other than OFF. Set the GBEI interfaces to the appropriate setting.

Release 1.6.0

1. Release 1.6.0 includes support for the LNB feature. In addition, the Fast Option definition for the Tx and Rx maximum symbol rates has been extended. The maximum allowable settings for both the Tx and Rx symbol rates has changed as follows: If you previously purchased 15 Msps, it can now be set to 18 Msps. If you previously purchased 34 Msps, it can now be set to 36 Msps. If you previously purchased 47 Msps, it can now be set to 54 Msps.

Release 1.5.1

2. 1.5.1 is a gateway FW release that is operationally identical to 1.4.4 but will allow FW after 1.5.1 to be loaded
3. Users can not upgrade 750 modems from 1.4.4 or prior to 1.6.0 or higher without going through the gateway FW of 1.5.1
4. Adds support for new and old modulator HW

Release 1.4.4

5. Modified CnC operation to maximize asymmetric operation.
6. Corrects a display error in the CnC power ratio.
7. Corrects a problem when multiple Ethernet M&C access methods are used simultaneously (such as SNMP and Telnet) that can cause the modem to reset.

Release 1.4.3

8. Added support for 1:N redundancy.
9. Added additional warning indicators when Fractional CnC is enabled and actively running in an online modem.
10. Corrections and enhancements to the Web interface.

Release 1.4.2

1. Corrections for intermittent demodulator unlock.
2. Changes to improve 1:1 switch setup (manual mode).
3. Corrections for overrun issue with Ethernet Flow Control disabled.

Release 1.4.1

1. Added support for OC3/STM1 PIIC cards.
2. Corrections and enhancements to SNMP.

Release 1.3.1

1. Added Compression and Decompression of Ethernet traffic and corresponding statistics.

Release 1.2.2

1. Corrected error in 1:1 Redundancy introduced in release 1.2.1

Software Release Notification

Release 1.2.1

1. Added trending and the associated web interface
2. Added flow control enable / disable capability

Release 1.1.4

1. Corrected potential Ethernet startup issue in release 1.1.3

Release 1.1.3

1. Corrections involving framing sync loss on synchronous interfaces.

Release 1.1.2

1. Improvements to CnC.

Release 1.1.1

1. Initial release