

## Programming using the CIM-CABLE

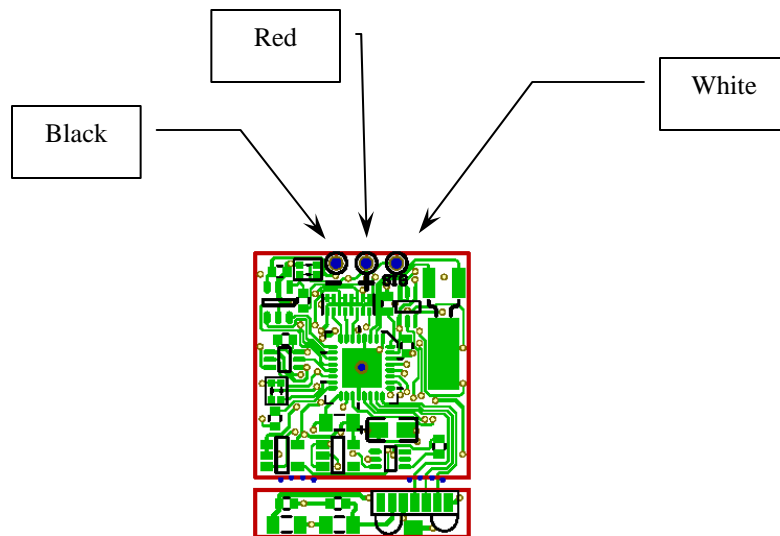
The programming cable, CIM-CABLE, supports connection via a computer serial port with any computer running terminal emulation software. One such program that is included in most Microsoft operating systems is called Hyperterm. Hyperterm is usually accessed under "Programs", "Accessories" and "Communications" in the windows start menu.

Start the Hyperterm program on your computer by double clicking on *Hyperterm.exe* or selecting *Hyperterm* under the Communications menu selection. A *New Connection* window will open. Name the new connection "CIM1000", select one of the available icons and click the "OK" button. A *Connect To* window will open. Under *Connect Using*, select "*Direct to COM1*" and click the "OK" button. A *Port Settings* window will open. Adjust the settings to match the below table and then click the "OK" button:

Parameter	Value
Bits per Second	9600
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

Once you have made the changes above, reset the connection by disconnecting and reconnecting using the icons in the toolbar. To disconnect, click the icon with the phone having the lifted handset. To connect, click the icon with the phone having the cradled handset. Be sure to save your selections under "File".

The CIM-Cable consists of a DB-9 connector that connects to the computer serial port, and three "micro-grabbers" that connect to three programming holes on the CIM-1000. Note that on the component side of the board, the holes are labeled (-), (+) and (SIG). Attach the Black grabber to (-), the Red grabber to (+) and the White grabber to (SIG).



Typing **\$CIM** will cause the CIM-1000 to connect with the terminal emulation software and it will output the following main menu.

**Important**  
When you have completed programming the device. Exit program mode gracefully by pressing the '\ ' button to return to main menu and then press 'X' to exit program mode.

```
Config v128
1. Manual
2. Upl d
3. Dnl d
0. Defaul t
X. Exi t

>
```

- Press '1' to enter Group menu level display and view the first group settings.
- Press '2' to upload all parameters in hexadecimal to be stored by Hyperterm.
- Press '3' to download all parameters through Hyperterm.
- Press '0' to reset all parameters to their factory defaults.
- Press 'X' to exit program mode and return the device to normal operate mode.

Pressing '\ ' at any time will return you to the main menu.

#### Group Menu Level

Entering a "1" selects Manual configuration, and the CIM-1000 outputs the first group programming menu:

```
SI GNALI NG = GESTAR
  ID Type : B
  ANI ID : 2047
AuxANI ID : 2047
  EMR ID : 2047
  ANI Msg : 01
  EMR Msg : 07
  TOT Msg : 09
  MAN Msg : 0F
Preambl e : 024 bi t
```

This first group defines the signaling type and parameters specific to the selected type. Pressing 't' will "toggle" between GE Star® and MDC-1200®.

```
SI GNALI NG = MDC1200
  ANI ID : 1234
AuxANI ID : 1234
  EMR ID : 1234
  ANI Msg : 8001
  EMR Msg : 8000
  MAN Msg : 8000
```

Pressing the 'space' bar selects the first item on the displayed group menu for editing. Additional presses of the 'space' bar, moves you down the list to the next item.

To change an item, space to the item and enter the new desired setting. Changes take effect after pressing the <TAB> or <CR> button. The group will be re-displayed to confirm the changes have been made. If power is removed before moving away from the edited group, the changes will not be stored. To move to the next group, press the <TAB> or <CR> button again.

COMMON

Start ANI : YES  
End ANI : NO  
ANI RepDI y : 000 Sec  
PTT Si detone : NO  
PTT Courtesy : NO  
ANI becomes Crit : YES  
Preamb w/Atk : NO

RADIO INTERFACE

Attack : 300 mS  
TOT : 060 Sec  
Cont. Data : NO  
KeyFol l owsPTT : NO  
AuxOut : Cri tChOnce  
TxLevel : 030 dB  
PttIn : actLOW  
Sl eepIn : actLOW

TX MODE = CONVENTI ONAL

Pressing 't' will toggle between Conventional mode and Trunking mode. If trunking is selected, trunking related parameters are made available for editing.

TX MODE = TRUNK

KeyTi me : 3000 mS  
Debounce : 300 mS  
Ti meout : 3000 mS  
TrunkAck : actLOW

EMER

RepQty : 005  
RepDI y : 010 Sec  
Acti veDI y : 000 Sec  
WarnTone : NO  
In : actLOW  
OpnMi cTx : 000 Sec  
OpnMi cRx : 000 Sec

MAN-DOWN

RepQty : 005  
RepDI y : 010 Sec  
Acti veDI y : 005 Sec  
WarnDI y : 005 Sec  
In : actLOW  
OpnMi cTx : 000 Sec  
OpnMi cRx : 000 Sec