



AML Hyper Terminal Programming Guide **050-015-0087**

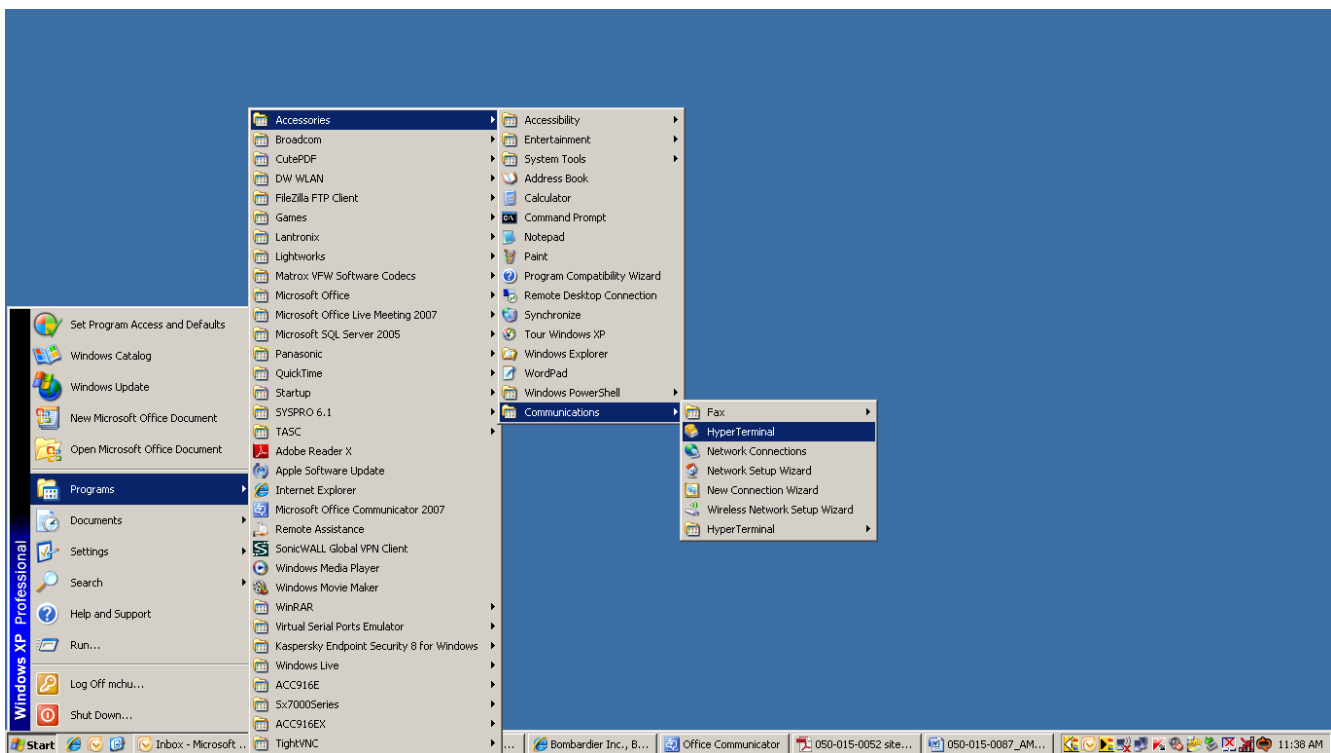
Overview

This quick start guide provides the necessary information to connect to the Antenna Line Monitor (ALM) using Hyper Terminal, and to disable the PTT Option.

Create a Hyper Terminal connection:

On Windows go to:

Start -> Programs -> Accessories -> Communications – Hyper terminal





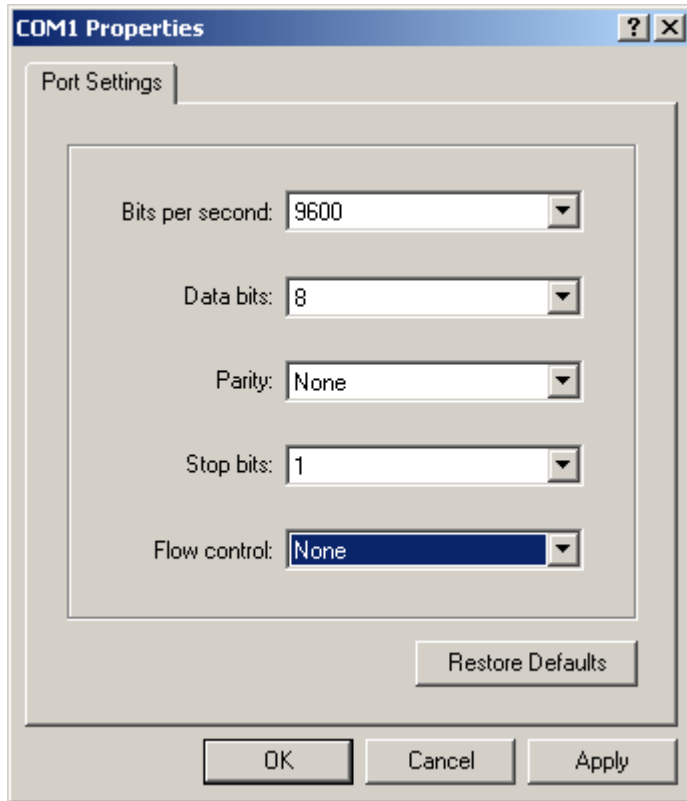
Enter a name. Click OK.



Select the COM port used for the Serial connection. Click OK.



Enter the following port settings:



COM1 Properties

Port Settings

Bits per second: 9600

Data bits: 8

Parity: None

Stop bits: 1

Flow control: None

Restore Defaults

OK Cancel Apply

Apply and OK.



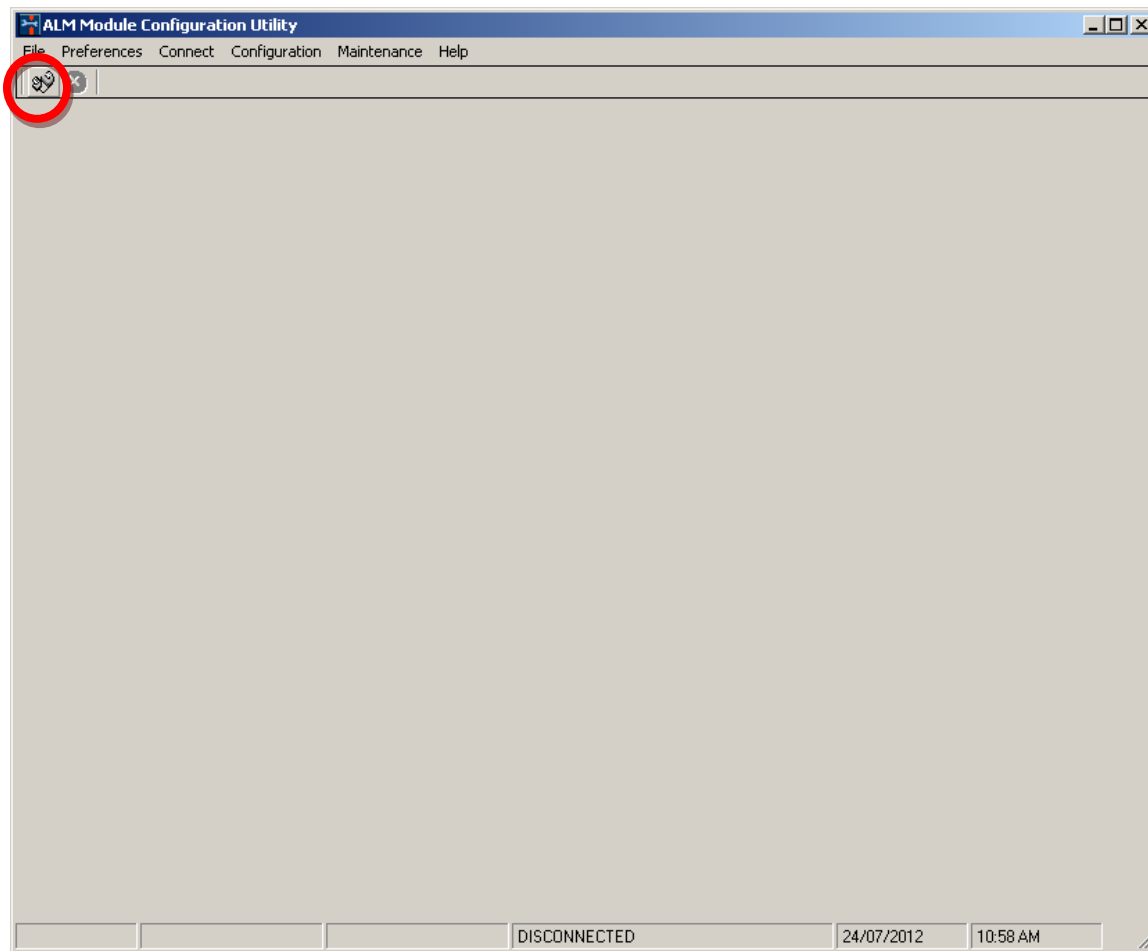
Connect the ALM to the computer using the serial cable.

Power up the ALM

Load the AMCU software

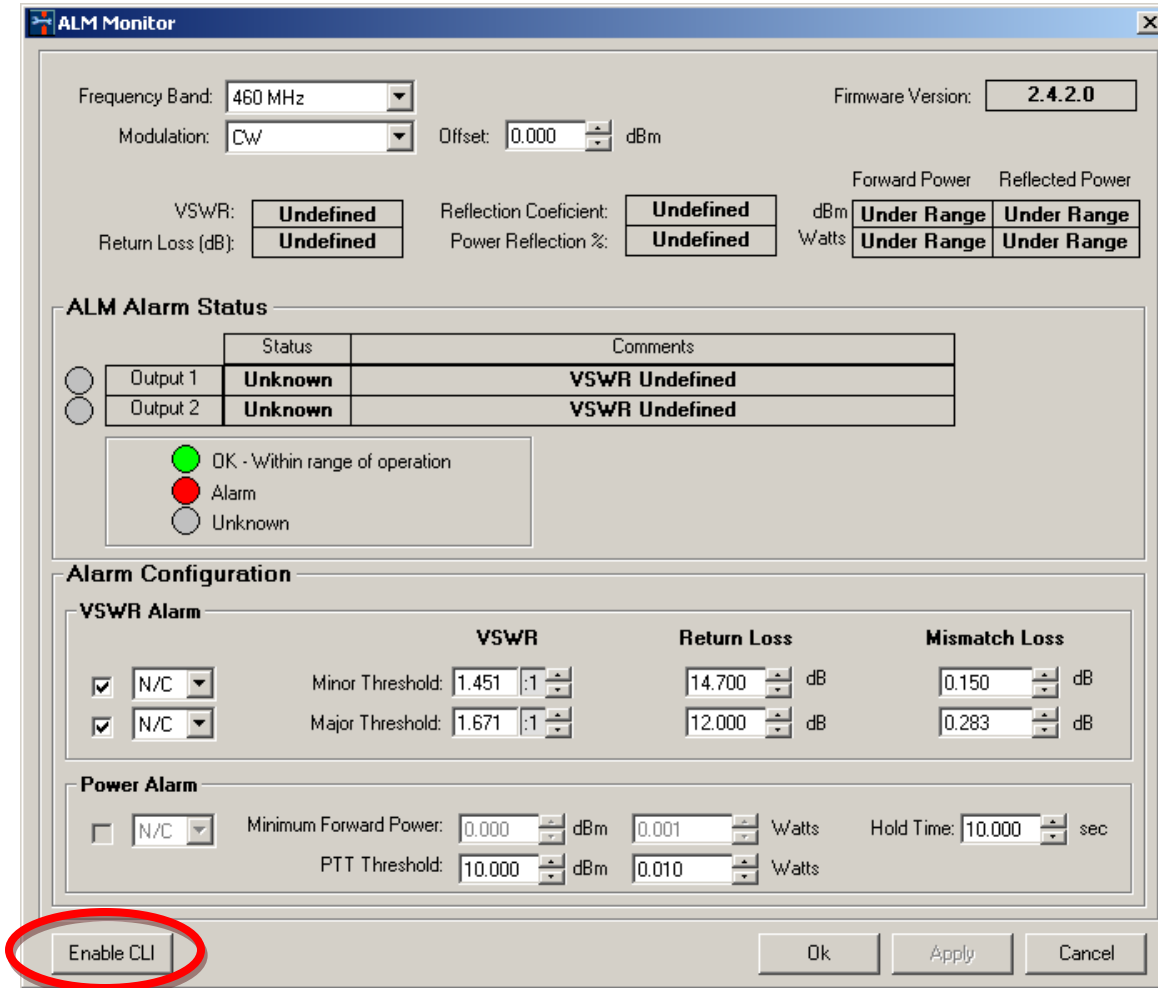
Run the “**CLIEnable.exe**” file

Click on “Connect via direct cable (LOCAL)”





You will see the following screen appears.



ALM Monitor

Frequency Band: 460 MHz Firmware Version: 2.4.2.0
 Modulation: CW Offset: 0.000 dBm

VSWR: **Undefined** Reflection Coefficient: **Undefined** dBm **Under Range** Reflected Power **Under Range**
 Return Loss (dB): **Undefined** Power Reflection %: **Undefined** Watts **Under Range** **Under Range**

ALM Alarm Status

	Status	Comments
<input type="radio"/> Output 1	Unknown	VSWR Undefined
<input type="radio"/> Output 2	Unknown	VSWR Undefined

OK - Within range of operation
 Alarm
 Unknown

Alarm Configuration

VSWR Alarm

	VSWR	Return Loss	Mismatch Loss
<input checked="" type="checkbox"/> N/C	Minor Threshold: 1.451 :1	14.700 dB	0.150 dB
<input checked="" type="checkbox"/> N/C	Major Threshold: 1.671 :1	12.000 dB	0.283 dB

Power Alarm

N/C Minimum Forward Power: 0.000 dBm 0.001 Watts Hold Time: 10.000 sec
 PTT Threshold: 10.000 dBm 0.010 Watts

Enable CLI Ok Apply Cancel

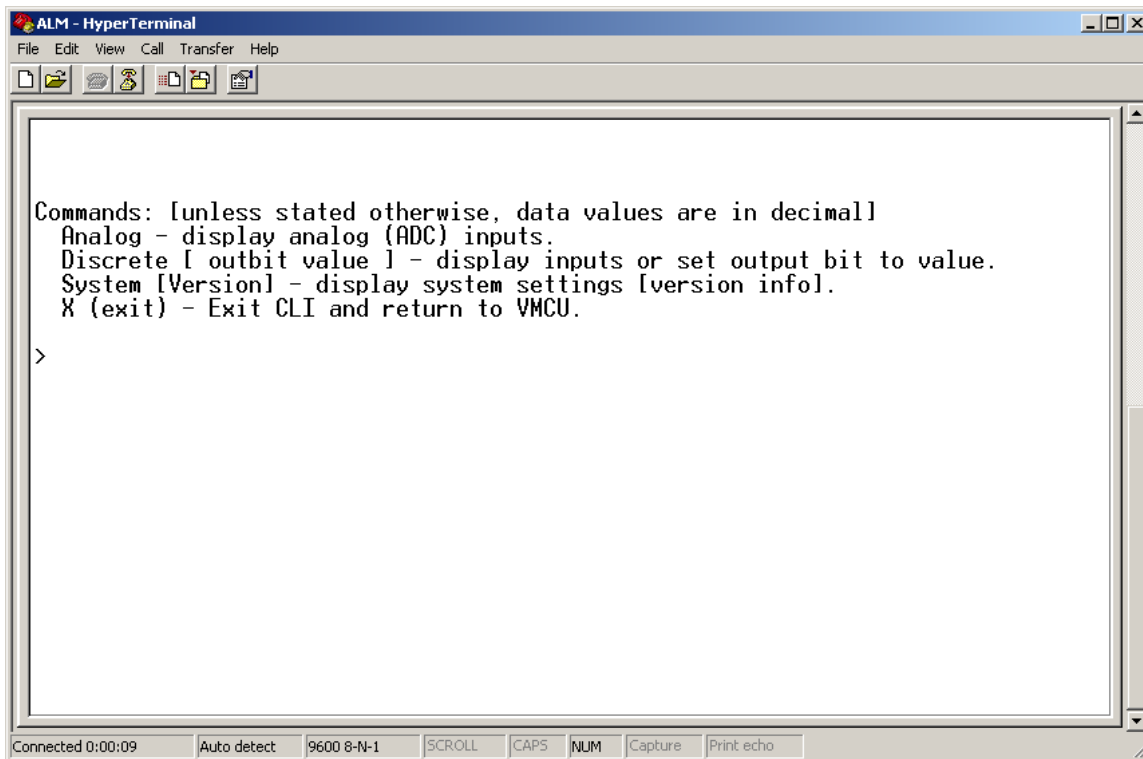
Click on “**Enable CLI**” at the bottom left corner

The AMCU window disappears



Open the Hyper terminal connection created previously. Click on “Connect”
Start -> Programs -> Accessories -> Communications -> HyperTerminal.

The Hyper Terminal screen appears. Hit Enter and the following message will be shown:

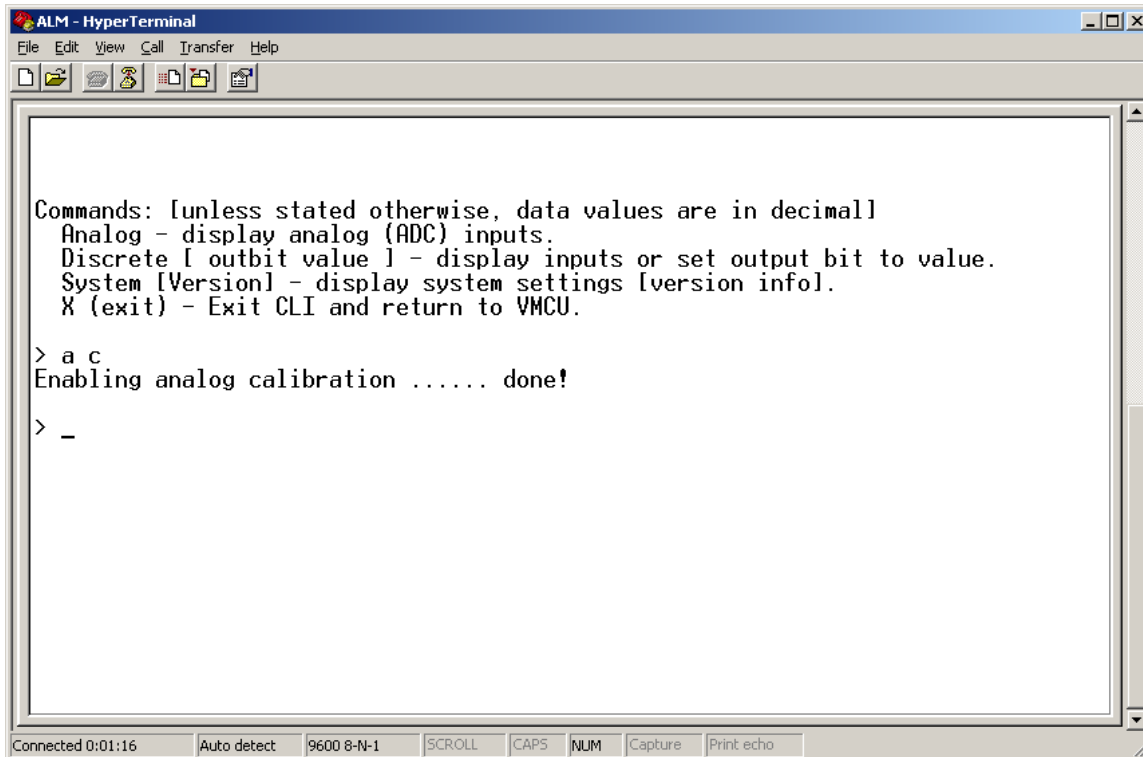


```
ALM - HyperTerminal
File Edit View Call Transfer Help
[Icons]
Commands: [unless stated otherwise, data values are in decimal]
Analog - display analog (ADC) inputs.
Discrete [ outbit value ] - display inputs or set output bit to value.
System [Version] - display system settings [version info].
X (exit) - Exit CLI and return to VMCU.
>
```

Connected 0:00:09 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print echo



Enable calibration with the following command: “a c” then hit Enter



```
ALM - HyperTerminal
File Edit View Call Transfer Help
[Icons]

Commands: [unless stated otherwise, data values are in decimal]
Analog - display analog (ADC) inputs.
Discrete [ outbit value ] - display inputs or set output bit to value.
System [Version] - display system settings [version info].
X (exit) - Exit CLI and return to VMCU.

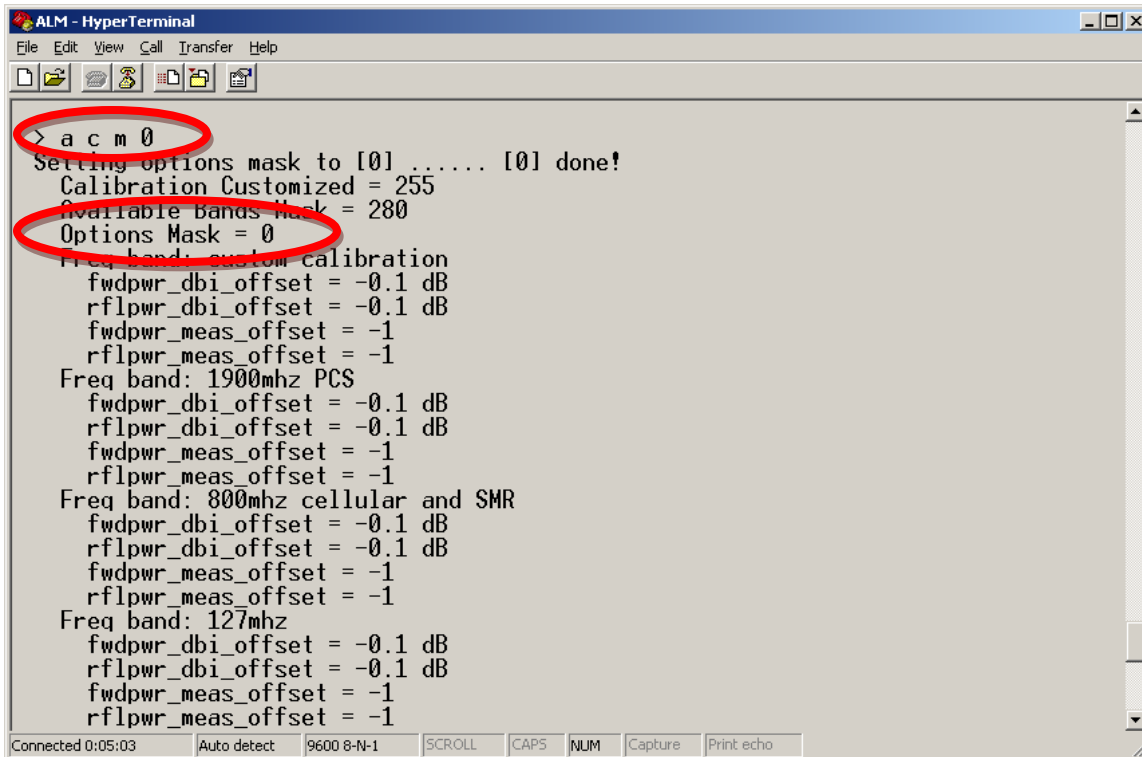
> a c
Enabling analog calibration ..... done!

> _

Connected 0:01:16  Auto detect  9600 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo
```



Type the following command to disable PTT option: “**a c m 0**” then hit Enter



```
ALM - HyperTerminal
File Edit View Call Transfer Help
> a c m 0
Setting options mask to [0] ..... [0] done!
Calibration Customized = 255
Available Bands Mask = 280
Options Mask = 0
Freq band: custom calibration
  fwdpwr_dbi_offset = -0.1 dB
  rflpwr_dbi_offset = -0.1 dB
  fwdpwr_meas_offset = -1
  rflpwr_meas_offset = -1
Freq band: 1900mhz PCS
  fwdpwr_dbi_offset = -0.1 dB
  rflpwr_dbi_offset = -0.1 dB
  fwdpwr_meas_offset = -1
  rflpwr_meas_offset = -1
Freq band: 800mhz cellular and SMR
  fwdpwr_dbi_offset = -0.1 dB
  rflpwr_dbi_offset = -0.1 dB
  fwdpwr_meas_offset = -1
  rflpwr_meas_offset = -1
Freq band: 127mhz
  fwdpwr_dbi_offset = -0.1 dB
  rflpwr_dbi_offset = -0.1 dB
  fwdpwr_meas_offset = -1
  rflpwr_meas_offset = -1
Connected 0:05:03  Auto detect  9600 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo
```

Scroll back up the screen and check that the “**Option Mask = 0**”



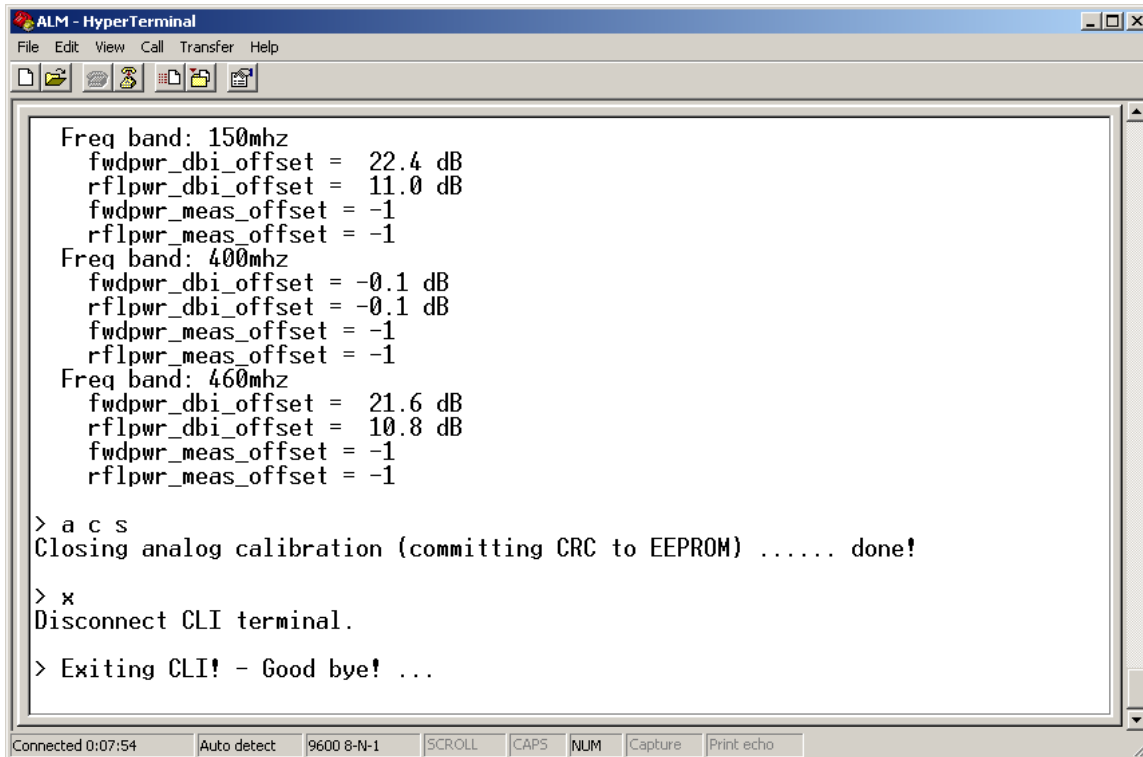
Save and close calibration with “a c s” command and hit Enter.

```
ALM - HyperTerminal
File Edit View Call Transfer Help
[Icons]
fwdpwr_dbi_offset = -0.1 dB
rflpwr_dbi_offset = -0.1 dB
fwdpwr_meas_offset = -1
rflpwr_meas_offset = -1
Freq band: 150mhz
fwdpwr_dbi_offset = 22.4 dB
rflpwr_dbi_offset = 11.0 dB
fwdpwr_meas_offset = -1
rflpwr_meas_offset = -1
Freq band: 400mhz
fwdpwr_dbi_offset = -0.1 dB
rflpwr_dbi_offset = -0.1 dB
fwdpwr_meas_offset = -1
rflpwr_meas_offset = -1
Freq band: 460mhz
fwdpwr_dbi_offset = 21.6 dB
rflpwr_dbi_offset = 10.8 dB
fwdpwr_meas_offset = -1
rflpwr_meas_offset = -1
> a c s
Closing analog calibration (committing CRC to EEPROM) ..... done!
>
```

Connected 0:06:07 Auto detect 9600 8-N-1 SCROLL CAPS NUM Capture Print echo



To exit Hyper Terminal, type “x” and hit Enter.



```
ALM - HyperTerminal
File Edit View Call Transfer Help
[Icons]
Freq band: 150mhz
  fwdpwr_dbi_offset = 22.4 dB
  rflpwr_dbi_offset = 11.0 dB
  fwdpwr_meas_offset = -1
  rflpwr_meas_offset = -1
Freq band: 400mhz
  fwdpwr_dbi_offset = -0.1 dB
  rflpwr_dbi_offset = -0.1 dB
  fwdpwr_meas_offset = -1
  rflpwr_meas_offset = -1
Freq band: 460mhz
  fwdpwr_dbi_offset = 21.6 dB
  rflpwr_dbi_offset = 10.8 dB
  fwdpwr_meas_offset = -1
  rflpwr_meas_offset = -1
> a c s
Closing analog calibration (committing CRC to EEPROM) ..... done!
> x
Disconnect CLI terminal.
> Exiting CLI! - Good bye! ...
Connected 0:07:54  Auto detect  9600 8-N-1  SCROLL  CAPS  NUM  Capture  Print echo
```

Disconnect from Hyper Terminal.

Re-boot the ALM.

The ALM is now configured with the PTT option turned OFF.

END.