

# Canberra 556 AIM Ethernet address recovery procedure

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<https://www.madexp.com/2021/05/14/556-aim-eth>

The Canberra or ND 556 AIM could be easily found on eBay and they are “relatively cheap”.

Sadly 99% of the modules has no ethernet MAC address printed on them. How to recovery it?

The answer is simple: via it’s on-board “Local Terminal” diagnostic software accessible thru RS232 protocol.

Needed material:

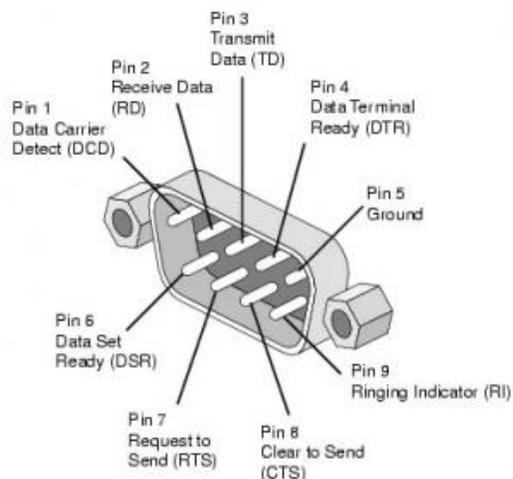
-RS232 to USB converter

-PuTTY or any VT100 terminal emulator software

-Female DB9 connector

-A 3 wire cable

-RJ11C connector. Actually It’s a 6P6C RJ25C connector notas indicated RJ11C by Canberra manual



You need to wire the RS232 cable this way:

RJ pin 2 to DB9 pin 5 <- GND

RJ pin 3 to DB9 pin 2

RJ pin 2 to DB9 pin 3

## Local Terminal Connector

The front panel Local Terminal RJ11C connector supports a standard RS-232 interface to a terminal, which can be used to run local AIM diagnostics and monitor the status of the module. All input and output signal levels are RS-423 compatible; Output is > +5 V space and < -5 V mark. Input is +0.4 V to +15 V space and -0.4 V to -15 V mark.

Pin Number		Signal	Description
RJ11C	25-pin EIA Adapter		
1,5,6	1,5,6,8-19 21-25	NC	No connection.
2	7	GND	Signal ground.
3	3	TXDB+	Transmitted data to terminal.
4	2	RXDB+	Received data from terminal.
N/A	4-20	RTS/DTR	Request To Send and Data Terminal Ready are connected together in the 25-pin EIA Adapter.

Connect your cable to AIM module front RJ11C female connector. Connect the DB9 to the RS232 to UART converter and it to the PC.

Use "PuTTY" software to connect to your AIM module with this RS232 protocol settings:

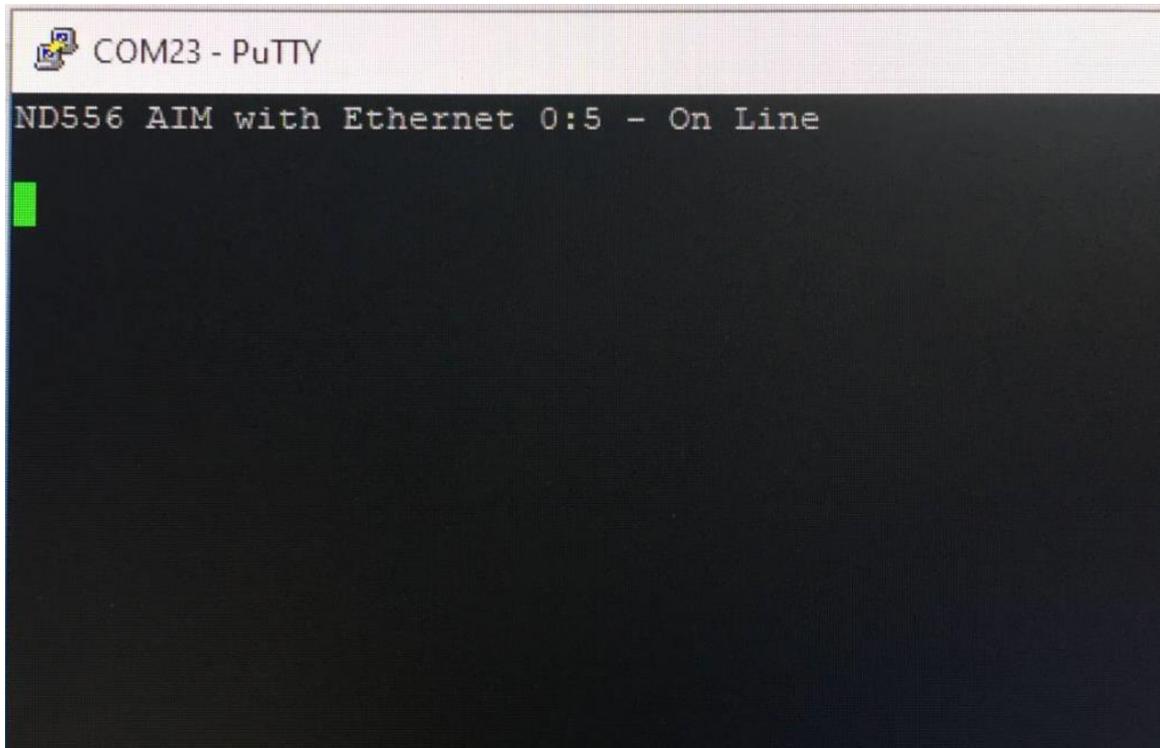
Speed: 9600 bps

Data bits: 8

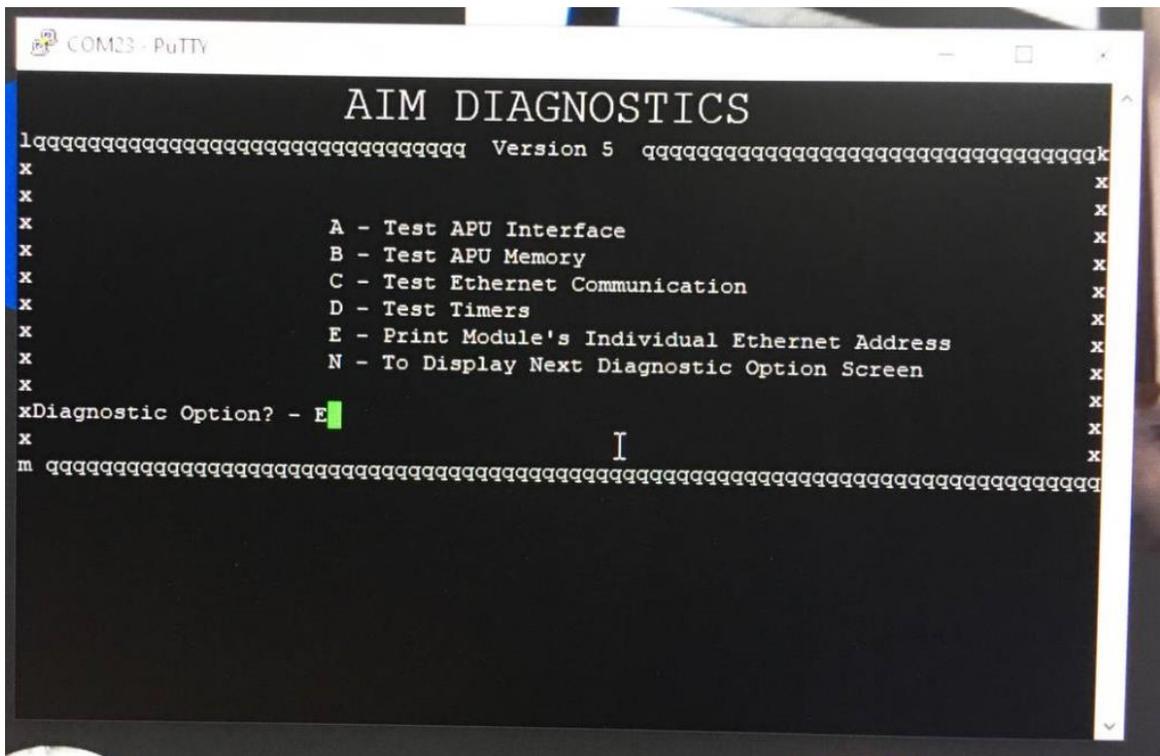
Parity: No

Stop bits: 1

Power up your NIM crate. You should see the boot messages running into your terminal. At the end of boot process you will get the following message



Now press Ctrl+D to enter diagnostic mode



Now press "E" and you'll get the needed address.