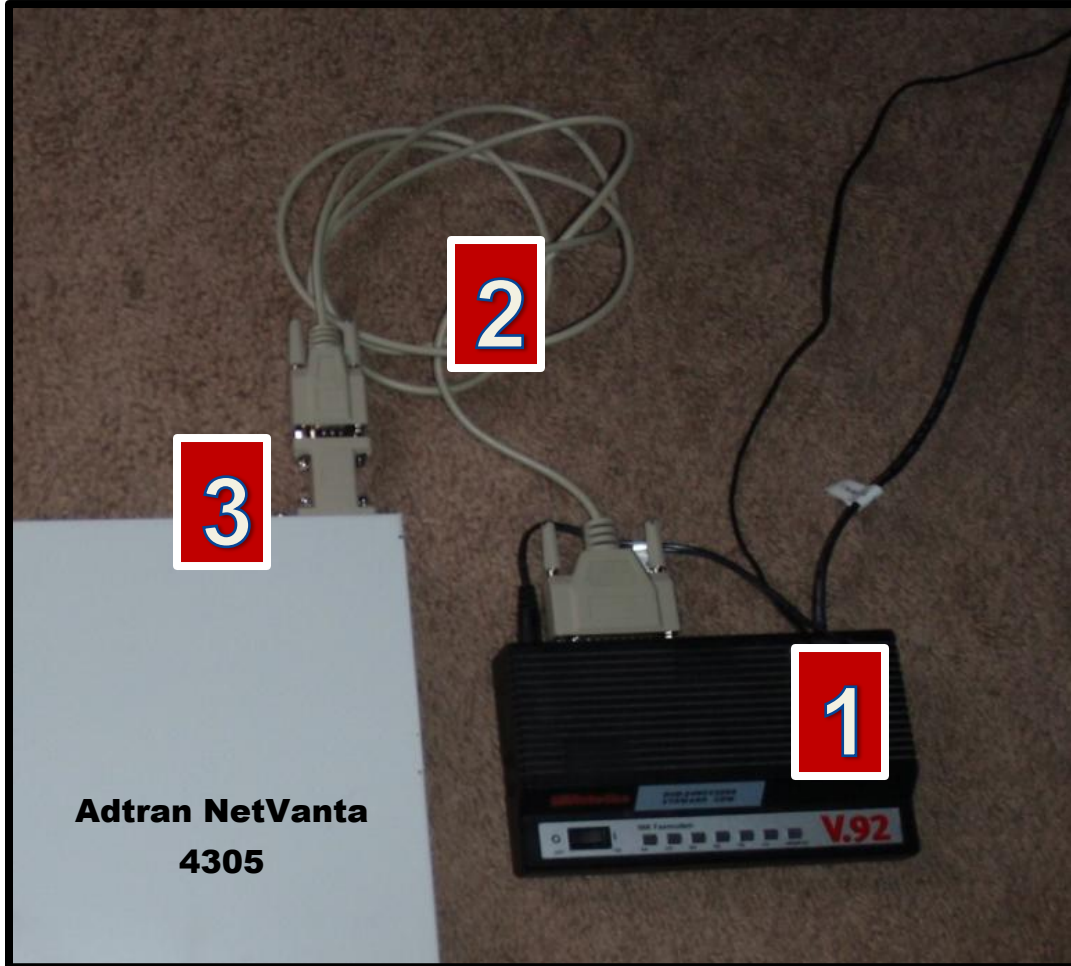


***** External Modem Connection to an Adtran NetVanta Router *****

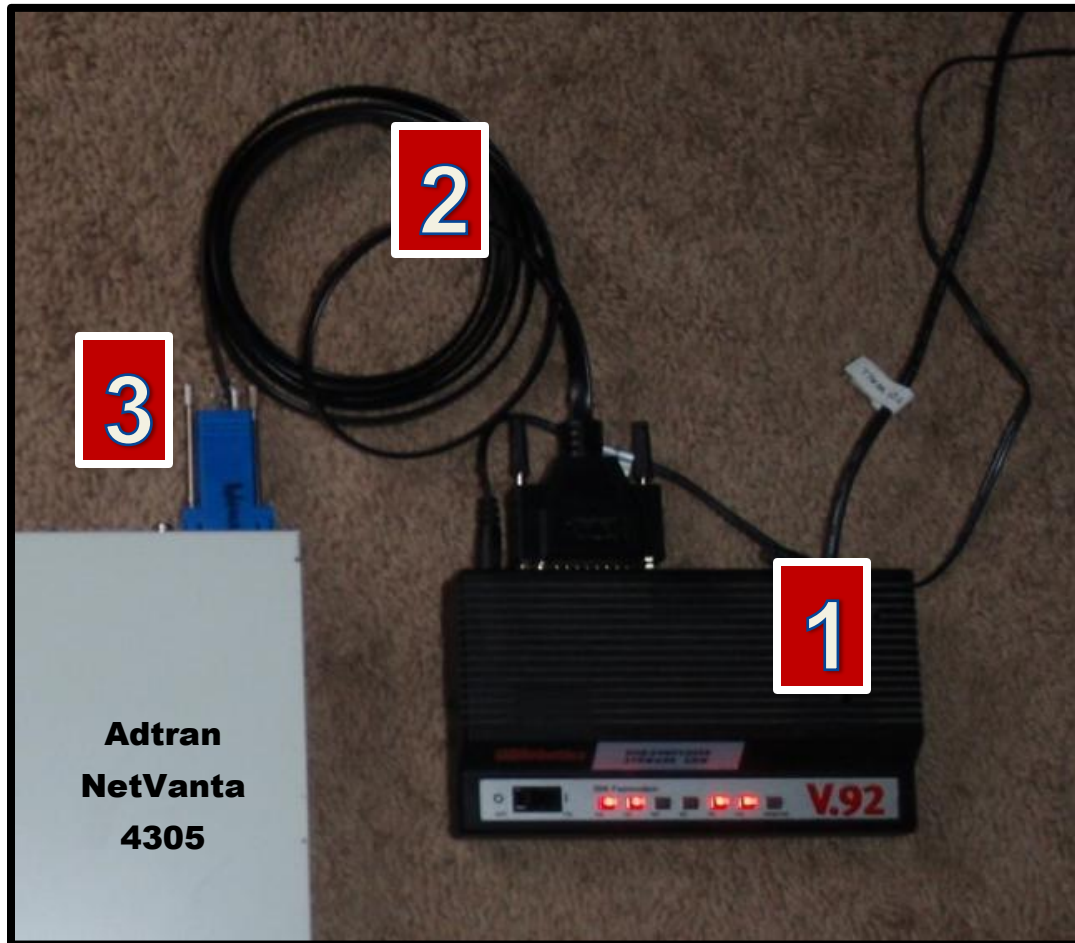
Option 1 (tested as working)



Parts List

1. U.S. Robotics 56k V.92 External Modem, Model 5686-05
2. cablestogo.com, part# 03019, 6ft DB25M/DB9F Null Modem Cable
3. cablestogo.com, part# 02771, DB9 M/M Gender Changer

Option 2 (tested as working)



Parts List

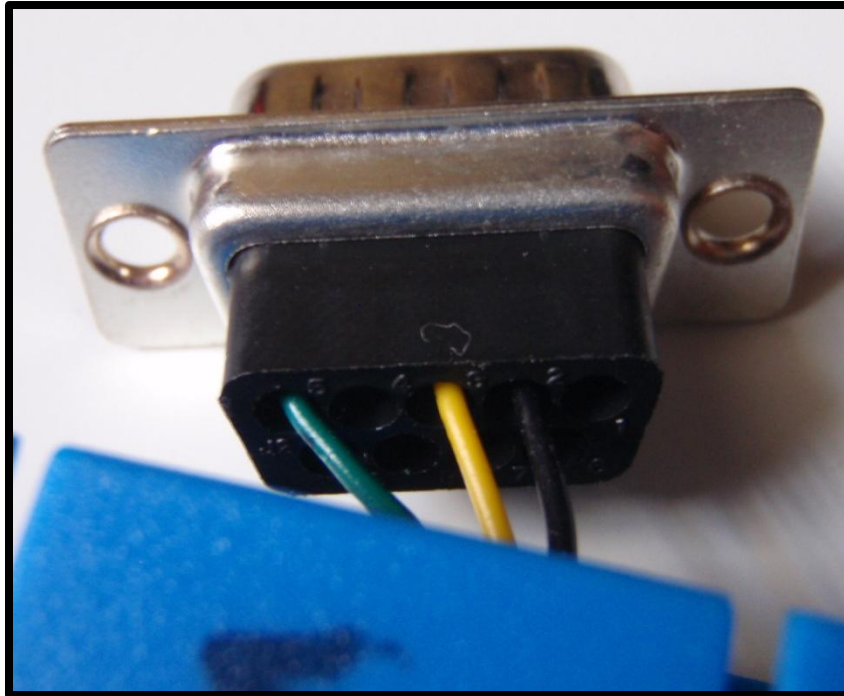
- 1. U.S. Robotics 56k V.92 External Modem, Model 5686-05**
- 2. Cisco DB25 Male to RJ45 Modem/Console cable, Cisco part# 72-3663-01**
- 3. cablestogo.com, part# 02947, RJ45 to DB9 male modular adapter**

DB9 male to RJ45 Modular Adapter Pin-Out for the Adtran

Green = pin 5 (grounding pin)

Yellow = pin 3

Black = pin 2



cablestogo.com, part# 02947, RJ45 to DB9 male modular adapter

U.S. Robotics External Modem Settings for the Adtran Router

- **NOTES:**
 - DIP switch 3 needs to be DOWN if you are configuring the modem via local serial port. Once you are ready to connect to the router, move DIP switch 3 to the UP position
 - DIP switch 4 needs to be UP (enable ECHO commands) if you are configuring the modem via local serial port. Once you are ready to connect to the router, move DIP switch 4 to the DOWN position
 - By default, the first time the modem is turned on, it loads the settings stored in NVRAM
 - DIP switch settings override AT commands at power-on

- **DIP Switch Settings to connect to the Adtran router**
 - 1, 4, 6, 8 are all DOWN, the others are all UP

- **Copy/Paste into the modem via local serial port**
 - `ate1&f0&n6s0=1&b0&m4&k0&w`

- **NVRAM Settings Explained**
 - `at&f0`
 - flash memory template (no flow control)
 - `at&n6`
 - 9600bps, make sure this comes after "`&f0`" otherwise the `at&f0` template overrides this setting
 - `ats0=1`
 - this is an S-register, it enables auto-answer on the first ring
 - `at&b0`
 - allows the modem to change its serial port rate to match the connection rate
 - `at&m4`
 - comes from the factory set to this, causes the modem to try for an error-control connection. If that is not possible it automatically falls back to "normal mode" (`&m0`)
 - `at&k0`
 - disable analog and TurboPPP data compression
 - `at&w`
 - store/save the configuration
 - `ati4`
 - display the settings in RAM (the current configuration)

- o atē0
 - command echo OFF. Your typing will **not** appear on the screen. If double characters appear, then both the modem's local echo and your software's local echo are on
- o atē1
 - command echo ON. Your typing **will** appear on the screen
- o ato
 - ends the session and keeps the connection
 - be wary of using this command if you are dialed in from a modem pool
- o ath
 - end the session and ends the connection
 - be wary of using this command if you are dialed in from a modem pool
- o atz (or atz!)
 - ends the session, ends the connection, and resets the modem
 - be wary of using this command if you are dialed in from a modem pool
- o atq0
 - display result codes