

Device enable: Active low, open collector output. Maximum sink current is 20 mA, maximum applied voltage is 40 VDC, and maximum power is 150 mW.

Device Enable

Device Enable is an open collector output provided with each serial port of a

modem. Refer to "Setting Up the Modems" on page 4-6 for connection information. Device Enable can be used to switch on a modem's host processor or connected instrument when the modem is ready to send data to

it that were received over the acoustic link, and to switch off the host processor when the modem is in the lowpower state, such as when it receives

the Hang Up command (ATH), the Lowpower State command (ATL) or the idle time expires. When the Device Enable output is set, it will switch up to 20 mA to ground. Whenever it is cleared, it is a high impedance. Refer to Section 2, "Specifications," for additional electrical specifications.

Automatic Device Enable Output Setting

The Device Enable output can be set automatically or with a command by setting the DevEnable configuration parameter to Auto. When DevEnable is set to 1 (Auto), the Device Enable output will set automatically when the modem receives data over the acoustic link, 80 ms prior to sending the data

to the host processor, or if it receives the Dial command (ATD).

Manual Device Enable Output Settings

The Device Enable output can be set only with a command by setting the DevEnable configuration parameter to 2 (Manual-LP) or 3 (Manual). When set to 2 (Manual-LP), the setting will be preserved upon entering and exiting

from the lowpower state. When set to 3 (Manual), the device enable output will be cleared when entering the lowpower state and remain cleared upon exiting from the lowpower state.

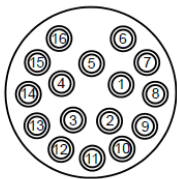
Device Enable Commands

The following device enable commands are available:

- ATTDm,p
- AT\$Xn,m,p

Table 4-1 POWER/SERIAL Connector Pinouts

PIN	LABEL	PORT	FUNCTION	SIGNAL DIRECTION
1	Power	—	External Power Input (21–28 VDC)	To Modem
2	Spare		Reserved	—
3	GND		Ground	
4	TX(+)	1	RS-422 Transmit(+)	Modem to Host
5	DE		Device Enable (See NOTE below.)	Modem to Host
6	RTS/RX(+)		Request to Send/RS-422 Receive(+)	Modem to Host/ Host to Modem
7	TX(-)		RS-422 Transmit(-)	Modem to Host
8	RXD		RS-232 Receive	Host to Modem
9	TXD/RX(-)		RS-232 Transmit/RS-422 Receive(-)	Modem to Host/ Host to Modem
10	GND		Ground	
11	RXD	2	RS-232 Receive	Host to Modem
12	TXD		RS-232 Transmit	Modem to Host
13	RTS		Request to Send	Host to Modem
14	DE		Device Enable (See NOTE below.)	Modem to Host
15	GND		Ground	
16	Spare	—	Reserved	—



**Figure 4-2 POWER/
SERIAL Connector, Face
View**

dev_enable

The dev_enable command asserts (enables) or deasserts (disables) the device enable outputs associated with serial port 0/1, where the numbering of the serial port is 0 based.

Syntax: dev_enable [-ena|-dis] 0

Privilege: user

Reference: none

Example: To assert the device enable outputs on serial port 1, a 1-based port number, enter:

```
dev_enable -ena 0
```

DevEnable

Default Setting

0 (Auto) The Device Enable output is set automatically and can also be set with the Local Device Enable (ATTDm) and Remote Device Enable (AT\$Xn,m) commands.

Definition

The setting of the DevEnable configuration parameter determines whether the Device Enable output is set automatically or with a command, or set only with a command. The Device Enable output operates as described in "Device Enable" on page 5-101.

Available Settings

The available settings for the DevEnable configuration parameter are listed below.

0 (Auto): The Device Enable output is set automatically and can also be set with the Local Device Enable (ATTDm) and Remote Device Enable (AT\$Xn,m) commands. Should the modem enter the lowpower state, the device enable output will be cleared. Upon exiting from the lowpower state when the modem receives data over the acoustic link, the device enable output will be set.

1 (MBARI): Reserved and should not be used.

2 (Manual-LP): The Device Enable output is set only with the Local Device Enable (ATTDm) and Remote Device Enable (AT\$Xn,m) commands. The setting will be preserved upon entering and exiting from the lowpower state.

3 (Manual): The Device Enable output is set only with the Local Device Enable (ATTDm) and Remote Device Enable (AT\$Xn,m) commands. Should the modem enter the lowpower state, the device enable output will be cleared and remain cleared upon exiting from the lowpower state.

Benthos provided Burnwire integration on Device Enable:

