MOD5270 Support Technical Documents:
http://www.netburner.com/support/technical_documents.html
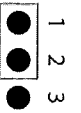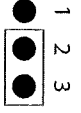
The Documentation Directory

All primary documentation is located in the "doc" directory of your tools installation. The default location is c:\nburn\docs. These documents include:

Document Type	Description
NetBurner Eclipse IDE	Getting started guide with Installation instructions. This is required reading before using NBEclipse.
NetBurner Runtime Libraries & uC/OS Reference Manual	Library reference guide for network and non-network platforms and a library reference for uC/OS Real-time operating system.
EFFS Documentation	Embedded Flash File System programmers guide, implementation guide, and FAT file system implementation guide.
Freescale Manual	Detailed Freescale processor manuals for ColdFire microprocessors.
GNU Manuals	Manuals for GNU C/C++ libraries, compiler and linker. This includes the C/C++ language API functions.
NetBurner PC Tools and Utilities	Reference manual for NetBurner tools that run on the PC, such as IPSetup, Autoupdate and MTTTY.
Platform Manuals for NetBurner Hardware	These are the NetBurner hardware manuals that include schematic information, memory maps and design guides.

Power Supply

The MOD-DEV-70 carrier board is designed to be powered by a standard USB port or a 7.5V DC power supply. It is possible to configure the carrier board to use one of the following sources for the power supply.

Table 1. Power Supply Routing Options

Jumper	Description	Configuration
JP1	USB (J20) (Default)	1 2 3
	External P5 power jack (J9)	1 2 3

Reset Source

The reset button on the MOD-DEV-70 carrier board is labeled Reset.

Input Power, P5 Jack (J9)

Input power jack. The center pin is positive.

USB Driver Installation

The MOD-DEV-70 evaluation boards USB serial interface requires the installation of the NetBurner USB Serial to Ethernet driver. This driver is automatically installed when the NNDK tools are installed.
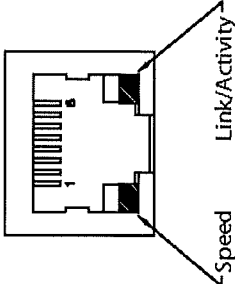
RS-232 and Serial Ports (USB or DB9)

Serial port 0 data can be routed through the USB or DB9 by setting JP2 and JP3. UART 1 RS-232 data can only be accessed from the DB9 connector (J3).

Table 2. USB or UART 0 Data Routing Options

Jumper	Description	Configuration
JP2	For RX data from USB (J4) (Default)	1 2 3
	For RX data from UART 0 DB9 (J7)	1 2 3
JP3	For CTS data from USB (J4) (Default)	1 2 3
	For CTS data from UART 0 DB9 (J7)	1 2 3

Ethernet Connector

Figure 2. RJ-45 Ethernet Connector

Speed — Link/Activity

- LED1: Speed: 10 MB (off) or 100 MB (on)
- LED2: Link/Activity

Hardware Setup

- Plug your Core Module into the two 50-pin module headers (Module Interface Connector at J1 and J2) on the carrier board. The RJ-45 connector on the Core Module must be on the outside edge of the carrier board.
- There are 2 UARTs on the module. UART0 is routed to the USB port and to DB9 connector labeled "UART0". UART1 is routed only to the DB9 connector labeled "UART1". Signals on the DB9 connectors are at RS-232 electrical levels. The default mode for UART0 serial communication is through the USB port. Jumpers JP2 and JP3 are used to select between the USB and DB9 connectors.
- You must jumper JP4 if you would like to use the SD/MMC flash card interface.

Figure 3. The MOD-DEV-70 carrier board with Core Module

Reset Switch
LED's
Dip Switch
USB Port
Switching Power Supply
Power LED
Core Module RJ-45 Jack Faces PCB edge
Enable SD Card (MUST BE JUMPERED!)
Serial Port 1
Serial Port 0
Optional External Power Jack
Route Power Directly or via USB (JP1)
Route UART0 Data Directly or via USB (JP2)
Route UART0 CTS Directly or via USB (JP3)