

LongBow base-board

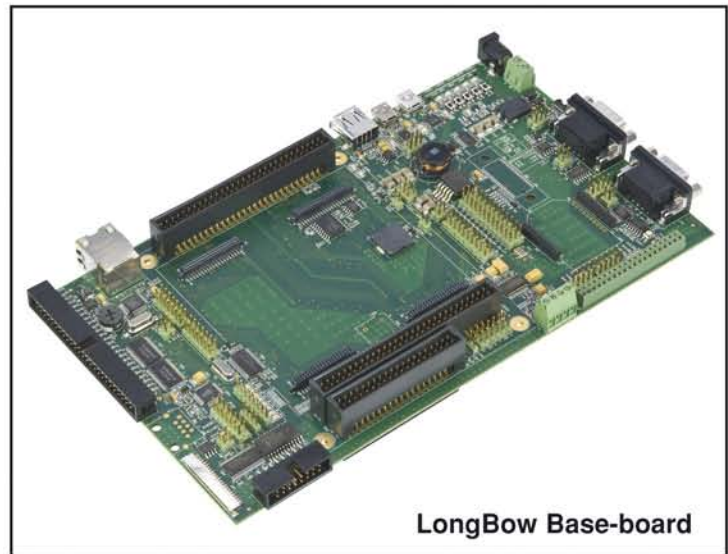


Reach your development target swiftly with LongBow

The LongBow base-board is the latest flexible prototyping solution from Future Electronics, continuing its line of Future-Blox Boards and features a common platform allowing support for multiple vendors' 32-bit microcontrollers. LongBow features a comprehensive array of peripheral functionality supported on one board solution and a range of Micro-Blox daughter-boards. The board support packages and demo code suite are available where appropriate.

LongBow base-board Features:

- 160 pin Micro-Blox interface supporting:
3 x UART; USB 2.0 (HOST); USB OTG; SPI; I²C; 8 x ADC; 6 x PWM; 8 x timer/capture; RTC alarm; I²S; DAC, 6x GPIO; MII interface; SD/MMC card interface; LCD interface (8-bit RGB data lines)
- RS-232; IrDA; RS-485 & CAN2.0B
- Current monitoring via ammeter or current monitor IC. (ZXCT1010E5TA from Zetex)
- USB2.0 Host and OTG ports
- Status LEDs and power LEDs
- 20x2 interface for Bluetooth and WiLAN modules
- Ethernet port supporting 10/100BASE-T/TX with precision time stamping for IEEE1588 applications (DP83640TVV from National Semiconductor)
- 20x2 header supporting ZigBee wireless modules
- SD memory card interface
- 16 pin header interface supporting 16x2 alphanumeric LCD
- Small buzzer for tone audio feedback
- 160 position Future-Blox Rev 2.3 board-to-board interface
- Audio Codec and Class D audio amp (UDA1344 and SA58670BS-G from NXP)
- Serdes support for LCD connection using National Semiconductor DS90UR124IVS serialiser
- LCD Touchscreen control (LM8300 from National Semiconductor)
- Direct interface to the NEC TFT LCDs shown below



LongBow Base-board

Part Number	Size
NL2432HC22-41K	3.5" QVGA with integrated touchscreen
NL8060BC21-03	8.4" SVGA
NL6448BC33-63D/C	10.1" VGA
NL8060BC31-41D	12.1" SVGA
NL10276BC24-13	12.1" XGA

