LPC2148 USB QuickStart Board

Processor: NXP's ARM7TDMI LPC2148 with integrated USB 2.0 device.

Program:
- Flash: 512 KB

Data Memory: 32+8 KB

Clock:
- 12.0000 MHz crystal for maximum execution speed (5x PLL = 60 MHz CPU clock)
- 32.768kHz RTC crystal

Dimensions: 59 x 39.5 mm

Power:
- On-board low-dropout voltage and reset generation
- Generates +3.3V from a +5V supply
- +3.3V available for external circuits, up to 300 mA
- Power supply: 5 VDC
- or via USB connector (very practical since no external power supply is needed)

Connectors:
- Dual 2x16 pins I/O connectors
- Signals available on expansion connector
- RS232, DSUB-9 (ESD/EMI protected)
- USB connector (USB 2.0 Device)

Other:
- 2 Kbit I2C EEPROM for storing non-volatile parameters
- Simple and automatic program download (ISP) via serial channel. Circuit that automatically controls the bootloader from RS232 channel
- Four layer PCB (FR-4 material) for best noise immunity
- Both UART #0 and #1 connected