

PICKit Serial Analyzer Buy Now

Part Number: DV164122

Documentation & Software

The PICKit Serial Analyzer is a low-cost USB-based tool used to direct communication between a PC and an external serial device.

The kit comes complete with hardware (supporting I2C™, SMBus, SPI and USART protocols), an easy-to-use GUI (to configure and display communications) and a target demonstration board for out-of-the-box functionality. For more advanced users a DLL is also included as an API for developing custom software.

The PICKit Serial Analyzer simplifies the chore of managing serial communication with a device under test. The Windows® user interface (provided) configures the hardware and 'scripts' communication with the target device. Scripts created within the software GUI are saved to an internal library for future use. Once created, scripts can be conveniently assigned to push buttons or simply executed directly from the library index. All communication data and events are posted to a transaction window in a readable format.

The PICKit Serial Analyzer currently supports the following protocols:

- I2C™ - Master
- I2C™ - Slave
- SPI - Master
- USART – Asynchronous
- USART – Synchronous
- LIN (external hardware required to meet electrical specifications)
- MICROWIRE



The 28-Pin Demo Board includes a PIC16F886, switch, LED(s), connector for the PICKit Serial and ample prototype area. The processor contains demonstration firmware supporting I2C™ communication and emulation of 3 I2C™ devices: EEPROM, ADC and Real Time Clock.

Example custom GUI(s) are provided to demonstrate use of the DLL in each of the supported serial protocols. The examples come as projects for Visual Basic 2005 Express (free download from Microsoft®).

PICKit Serial Analyzer software uses Microsoft® .NET Framework. The installation process will automatically download .NET from the internet if not present.

Features Package Contents

- PICKit Serial Analyzer
- 28-Pin Demo Board (w/ PIC16F886 microcontroller and generous prototyping area)
- USB Cable
- Easy-to-use Windows®-based graphical user interface
- Software DLL for custom software development
- CD containing all user's guides, technical documentation and source code

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Documents	Last Updated	Size	
PICDEM Lab Development Board Errata	11/25/2009 1:47:31 PM	196KB	
PICKit™ Serial Analyzer Firmware v0305 (project source)	7/27/2009 1:34:37 PM	449KB	
PICKit™ Serial Analyzer Firmware v0305 (hex)	7/27/2009 1:31:05 PM	48KB	
PICKit™ Serial Analyzer User's Guide	3/31/2009 2:13:28 PM	2MB	
PICKit™ Serial Analyzer GUI - Revision History	3/25/2009 2:57:48 PM	24KB	
PICKit™ Serial Analyzer GUI v2.2 (exe/dll installation)	3/25/2009 2:56:10 PM	4MB	
PICKit™ Serial Analyzer DLL v2.4 - Revision History	3/25/2009 2:51:19 PM	19KB	
PICKit™ Serial Analyzer DLL v2.4 - documentation	3/25/2009 2:50:01 PM	533KB	
PICKit™ Serial Analyzer DLL v2.4	3/25/2009 2:48:31 PM	46KB	
28-Pin Demo Board (project source)	1/29/2008 4:00:24 PM	243KB	
PICKit™ Serial - I2C Demo Board GUI v1.1	10/19/2007 2:02:33 PM	1MB	
PICKit™ Serial - SPI Demo Board GUI v1.0	10/19/2007 1:52:13 PM	1MB	
PICKit™ Serial Example GUI - SPI (project source)	7/11/2007 4:15:33 PM	398KB	
PICKit™ Serial Example GUI - LIN (project source)	7/11/2007 4:15:11 PM	433KB	
PICKit™ Serial Example GUI - Microwire (project source)	7/11/2007 4:14:49 PM	401KB	
PICKit™ Serial Example GUI - I2C Slave (project source)	7/11/2007 4:14:29 PM	675KB	
PICKit™ Serial Example GUI - I2C Master (project source)	7/11/2007 4:14:06 PM	572KB	
PICKit™ Serial Example GUI - USART (project source)	7/11/2007 4:13:35 PM	539KB	
PICKit™ Serial Analyzer DLL v1.6	7/11/2007 4:09:27 PM	24KB	
28-Pin Demo Board User's Guide	2/27/2007 3:32:05 PM	291KB	