

Matrix Multimedia PICmicro® microcontroller training solutions

Version 3 PICmicro development board datasheet

HP48840

PICmicro® Microcontroller Development Board Document

Contents of package

1. HP488 Version 3 PICmicro® Development Board
2. Document EB01340 "PICmicro® Development Board Document"
3. Document "Warranty"
4. ELSAM CD
5. USB Cable

Summary – PICmicro® Development Board Description

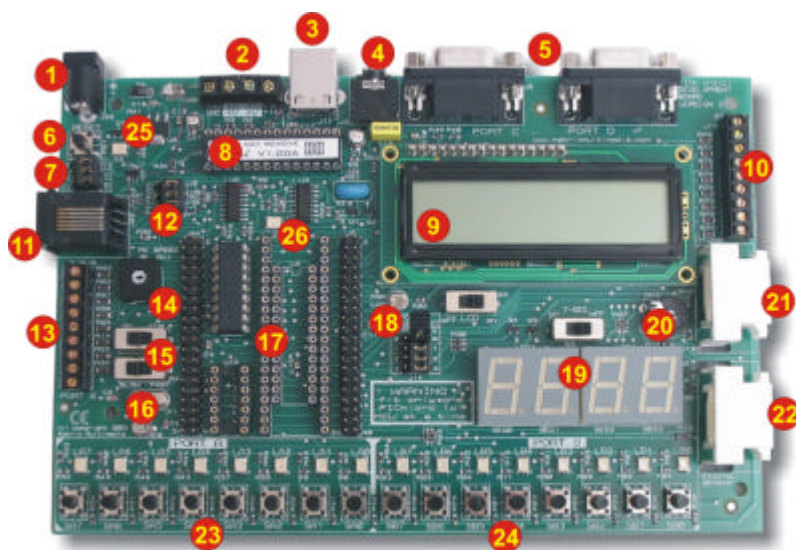
The PICmicro development board is designed for learning PICmicro programming and for developing PICmicro based projects. The board allows a wide range of flash PICmicro microcontrollers to be programmed and executed through the 'PPP' software utility supplied. The board is tightly integrated to our range of software utilities and courses that provide complete solutions for learning PICmicro programming at a variety of levels.

The board is shipped with a PIC16F88 – an 18-pin device with up to 15 I/O lines configured in two ports – A and B. The '88 device is one of the newer devices from Arizona Microchip and is surprisingly powerful with on-board A/D, internal clock, internal USART and a host of other functions and features.

Added Features compared to Version 2 Development Board include: -

- USB programmable
- Can be powered via USB (no need for power supply)
- E-Blocks compatible
- Compatible with Microchip's ICD2 programmer/debugger
- Removable crystal / faster crystal as standard
- Fitted with the advanced 16F88 device rather than PIC16F84
- More LED's / switches on port A
- New programming software (PPP) routines
- More expansion option

PICmicro® Development Board Layout



1. Power supply connector
2. 5V outputs for E-blocks connection
3. USB connector
4. Single bit audio output
5. E-blocks connectors for ports C and D
6. Reset switch
7. Power selector link block—USB or Power connector
8. USB interface chip
9. 2 line 16 character alphanumeric display
10. Screw terminal connectors for port B
11. In Circuit Debug socket
12. ICD/USB programming selection
13. Screw terminal connectors for port A
14. RC speed potentiometer
15. Oscillator mode selection switches
16. Removable crystal (19.6608MHz)
17. Sockets for programming 8, 14, 18, 28 and 40 pin PICmicro devices
18. On-board light sensor
19. Quad 7-segment displays
20. Analogue input potentiometer
21. External analogue sensor input
22. External digital sensor input
23. Port A switches and LEDs
24. Port B switches and LEDs
25. Power indicator
26. Programming indicator

Where to find more information

On the ELSAM CD, which is provided with this board, is the relevant information for the product. It is in PICmicro Development Board directory, which includes the following documents: -

- Datasheet
- User test program

Information regarding the software is also provided on this CD.

As this board is compatible you may find the E-Blocks folder a useful resource which contains: -

- Installation guide.doc
- Getting started with E-Blocks.pdf
- E-Blocks board folders – which contain datasheets and test programs

For full up-to-date datasheets, documentation, F.A.Q.s and software updates please visit www.matrixmultimedia.com