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# Explorer 16/32 Development Kit

Part Number: DM240001-3



The development kit comes with Explorer 16/32 main development board, PIC24FJ1024GB610 PIM (MA240023), USB A to micro-B cable, and USB A to Type-C Cable. For out of the box experience, Explorer 16/32 Development Kit is the right choice that comes with all the necessary components to get started with the evaluation and prototyping right away!

Also read about Explorer 16/32 Development Board

#### **Backwards Compatibility**

Explorer 16/32 Development Board is completely backwards compatible with the Classic Explorer 16 Development Board (DM240001 and DM240002) and its associated ecosystem that include:

- Process or Plug-In Modules (PIMs)
- PICtail Plus Daughter Boards
- Code Examples, Prototypes and Software Libraries developed on Classic Explorer 16 Development Board

Use all of existing codes, libraries, prototypes, PIMs and the PICtail Plus daughter cards interfaced via side PICtail Plus connector directly. Re-use the PICtail Plus daughter cards interfaced via vertical PICtail Plus connector using additional PICtail Plus Expansion Board (AC240100)

**Getting Started** 

- Read the Explorer 16/32 User's Manual (available at Documentation & Software section of this page)
- Download the free MPLAB X IDE
- Download the suitable MPLAB XC Compiler
- Download and unzip the appropriate firmware demo code (available at Documentation & Software section of this page)



ures	S Package Contents Related Tools Accessories Support
• 1	100 pin Plug-In Module (PIM) socket, supporting a wide variety of 16-bit and 32-bit PIC® MCUs and dsPIC® DSCs
• F	Power supply
	<ul> <li>USB Power through PICkit<sup>™</sup>-On-Board (PKOB), USB Type-C<sup>™</sup> or USB-Serial Converter</li> </ul>
	• 9-15V DC Power Supply
• (	On board USB to UART/I2C <sup>™</sup> adapter for data exchange with PC/Mac/Linux based host
• ເ	JSB Type-C™ (host/device) and Type-A (host) support for applications using USB microcontroller
• +	lardware functionality extension by attaching accessory boards via
	● PICtail™ Plus interface
	● 2x MikroElektronika mikroBUS™ interface
	● 2x Digilent Pmod™ footprint
• 4	Alpha-numeric 16 x 2 LCD display, 8x User LEDs, 4x Push Buttons, 10k Potentiometer
• 1	Vicrochip's TC1047A high accuracy, analog output temperature sensor
• F	Programmer/Debugger
	● Integrated USB programmer/debugger - PICkit™-On-Board (PKOB)
	<ul> <li>Interfaces to MPLAB ICD 3, MPLAB REAL ICE™, PICkit™ 3</li> </ul>
• 5	Support for all the existing and new PICtail™ Plus Daughter Cards
	• Interface PICtail™ Plus Daughter Cards connected via side PICtail™ Plus connector directly
	<ul> <li>Interface PICtail<sup>™</sup> Plus Daughter Cards connected via vertical PICtail<sup>™</sup> Plus connector through additional accessory - PICtail<sup>™</sup> Plus Expansion Board</li> </ul>

## Documentation & Software

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Documents	Last Updated	Size
Explorer 16/32 Click Board Demo Code	8/29/2016 10:18:01 AM	3MB
Explorer 16/32 Board Demo Code	8/29/2016 10:16:45 AM	813KB
Explorer 16/32 Development Board Sell Sheet	8/12/2016 2:07:47 PM	1MB
Explorer 16/32 User's Guide	8/12/2016 1:41:45 PM	0KB
Explorer 16/32 Bill of Materials	8/12/2016 1:41:45 PM	36KB
Explorer 16/32 Schematics	8/12/2016 1:40:59 PM	1MB
Truly's LCD 16x2 3.3V Module Specifications (TSB1G7000-E)	2/18/2013 10:33:56 AM	883KB
Novatek's Single-Chip 16C X 2L Dot-Matrix LCD Controller / Driver (NT7603)	1/28/2010 3:59:20 PM	305KB
100-pin Plug-In Module (PIM) Dimensions	9/29/2009 7:00:22 AM	14KB

# Explorer 16/32 Development Kit Related Videos.

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