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Microchip - DM240002 - DM240002 Explorer 16 Development Board

Product Overview:

The Explorer 16 is a low cost, efficient development board to evaluate the features and performance of Microchip's new PIC24 Microcontroller, the dsPIC33 Digital Signal Controller (DSC) families, and the new 32-bit PIC32MX devices. Coupled with the MPLAB ICD 2 In Circuit Debugger or MPLAB REAL ICE, real-time emulation and debug facilities speed evaluation and prototyping of application circuitry.

The **Explorer 16 44-pin (DM240002)** features a Plug-In Module (PIM) for the PIC24FJ64GA004.



Kit Content:

- The Explorer 16 Development Board.
- A pre-programmed dsPIC33FJ256GP710 PIM
- A pre-programmed PIC24FJ64GA004 PIM
- An RS-232 cable
- The Explorer 16 Development CD ROM, containing:
 - This User's Guide
 - Data Sheets for the PIC24FJ128GA family and dsPIC33FJ256GP family
 - Schematics and PCB drawing files for the PIM modules
 - Example programs for use with the PIC24 and dsPIC33F devices
 - Files detailing general purpose expansion boards that can be used with the explorer 16 board (provided in Gerber format)

Key Features:

- DM240002: features a PIM for the PIC24FJ64GA004
- Alpha-numeric 16 x 2 LCD display
- Interfaces to MPLAB® ICD 2, MPLAB ICD 3, MPLAB REAL ICE™ and RS-232

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- Includes Microchip's TC1047A high accuracy, analogue output temperature sensor
- Full documentation CD includes user's guide, schematics and PWB layout
- Expansion connector to access full devices pin-out and bread board prototyping area
- PICtail[™] Plus connector for expansion boards.

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DM240002	Microchip	1754668	54M4471

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
AC164123	Microchip	DEMO BOARD, PICTAIL PLUS ETHERNET	1439831	16M5242
DM240001	Microchip	Explorer 16 kit(100-PIN)	1146554	04M6008
MA320001	Microchip	PIC32MX360F512L PLUG-IN MODULE	1523316	73M8723
AC164137-1	Microchip	MRF49XA PICtail/PICtail Plus Daughter Board (433.92 MHz)	1736502	14R8658
AC164137-2	Microchip	MRF49XA PICtail/PICtail Plus Daughter Board (868/915 MHz)	1736503	14R8659
MA240012	Microchip	PIC24H 100P to 100P TQFP Plug-In Module use w/ Explorer 16 (DM240001 or DM240002)	NA	88K5499
MA240015	Microchip	PIC24F Plug-In Module use w/ Explorer 16 (DM240001 or DM240002)	NA	98M1509
MA330011	Microchip	dsPIC33 GP 100P to 100P TQFP Plug-In Module use w/ Explorer 16 (DM240001)	NA	56K6941

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
LM001	LM Technologies	ADAPTER, WI-FI 802.11G, 54MBPS, USB	LM001	1696626	04R7576
LM005	LM	ADAPTER, WI-FI	LM005	1716034	15R1831

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	Technologies	802.11N, 300MBPS, USB			
WISMC01BI-01	Ezurio	SERIAL TO WIFI MODULE, 802.11, TCP/IP	WISMC01BI-01	1491592	62M1072
WISDK01BI-02	Ezurio	DEVELOPMENT KIT, SERIAL TO WIFI	WISDK01BI-02	1491596	62M1071
WISMC03BI-01	Ezurio	SERIAL TO WIFI MODULE, 802.11, SLIP	WISMC03BI-01	1491590	NA

Document List:

Datasheets:

Part Number	Description	Size
DM240002	dsPIC® Digital Signal Controllers	2.84 MB
PIC24FJ128GA010	PIC24FJ128GA Family	3.51 MB
PIC24F16KA102 Module	PIC24F16KA102 Plug-in Module Information Sheet	93KB
MA240013	PIC24FJ64GA004 PIM (MA240013) Manual	132KB

Application Notes:

File Name	Size
AN100 How to build a Linux Wireless Sniffer	56KB
100-pin Plug-In Module (PIM) Dimensions	14KB
AN1247 - Communication Device Class (CDC) Host	351KB
AN1192 - MRF24J40 Radio Utility Driver Program	839KB

Hardware & Software:

File Name	Size
dsPIC33F Demo Files for Explorer 16	25KB
MiWi(TM) P2P for PIC18, PIC24, dsPIC, PIC32	7819KB
MiWi(TM) Protocol Stack for PIC18, PIC24, dsPIC, PIC32	4953KB
PIC24F Demo Files for Explorer 16	46KB
PIC24F16KA102 Demo Files for Explorer 16	278KB
PIC24H Demo Files for Explorer 16	24KB

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Others Resources:

File Name	Size
DM240001 BOM and Schematics	866KB
dsPIC33FJ128GP804 PIM Information Sheet	289Kb
dsPIC33FJ12GP202 PIM Information Sheet	393KB
dsPIC33FJ256GP710 100-pin to 100-pin TQFP Plug-In Module (PIM) Information Sheet	672KB



