## element 14 Your Electronic Engineering Resource



### Microchip - DM320003 - PIC32 USB Starter Kit II

#### **Overview:**

The PIC32 USB Starter Kit II provides the easiest and lowest cost method to experience the USB and CAN functionality of the PIC32 microcontrollers. Users can develop CAN applications using PIC32 expansion boards. The board contains everything need to develop USB embedded host/device/OTG applications by combining this board with Microchip's free USB software (On-The-Go support provided in a future software release).



The USB Starter Kit II has the same form factor and expansion connector as other PIC32 Starter Kits.

#### Kit Content:

- PIC32 USB Starter Kit II development board
- USB Mini-B to full-sized A cable USB debug cable to debug and power the board
- USB Micro-B to full-sized A cable PIC32 USB cable to communicate with the PIC32 USB port

#### Key Features:

- PIC32MX795F512L 32-bit microcontroller.
- Green power-indicator LED.
- On-board crystal for precision microcontroller clocking (8 MHz).
- USB connectivity for on-board debugger communications.
- Orange debug indicator LED.
- Three push button switches for user-defined inputs.
- Three user-defined indicator LEDs.
- USB Type A receptacle connectivity for PIC32 Host-based applications.
- HOST mode power jumper.

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### **Ordering Information:**

#### **Products:**

| Part Number | Manufacturer | Farnell P/N | Newark P/N |
|-------------|--------------|-------------|------------|
| DM320003    | Microchip    | 1621787     | 03P1608    |

#### **Associated Products:**

| Part Number            | Manufactu<br>rer | Description                                   | Support Device      | Farnell<br>P/N | Newark<br>P/N |
|------------------------|------------------|---|---------------------|----------------|---------------|
| PIC32MX795F512L-80I/PF | Microchip        | MCU, 32BIT,<br>512K FLASH,<br>USB,<br>100TQFP | PIC32MX795F51<br>2L | 1778491        | 53R0338       |
| TC1262-2.5VDB          | Microchip        | Voltage<br>Regulator                          | TC1262              | NA             | 69K0481       |
| MCP1253-33X50I/MS      | Microchip        | DC/DC<br>Charge<br>Pump<br>Converter IC       | MCP1253             | 1332067        | 03H5060       |

#### Similar Products:

| Part Number | Manufacturer | Description                       | Support<br>Device | Farnell<br>P/N | Newark<br>P/N |
|-------------|--------------|-----------------------------------|-------------------|----------------|---------------|
| DM320001    | Microchip    | PIC32MX STARTER KIT               | PIC32             | 1523317        | 71M0037       |
| DM320002    | Microchip    | PIC32 I/O Expansion Board         | PIC32             | 1621784        | 03P1607       |
| DM320003-2  | Microchip    | BOARD, DEMO, USB OTG,<br>PIC32    | PIC32             | 1778060        | 51R8563       |
| DM320004    | Microchip    | KIT, STARTER, ENET, PIC32         | PIC32             | 1778059        | 51R8564       |
| DM330011    | Microchip    | KIT, STARTER, MPLAB FOR<br>DSPIC  | PIC32             | 1621788        | NA            |
| MA320002    | Microchip    | KIT, PIC32 USB PLUG IN<br>MODULE  | PIC32             | 1558601        | 88M9291       |
| PIC-P32MX   | Olimex       | KIT, DEV, PIC32MX340F512<br>BOARD | PIC32             | 1701531        | 25R4926       |

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| MA320001 | Microchip | PIC32MX360F512L PLUG-IN<br>MODULE       | PIC32 | 1523316 | 73M8723 |
|----------|-----------|---|-------|---------|---------|
| AC320002 | Microchip | Development Tools &<br>Eval/Demo Boards | PIC32 | 1621785 | 07P8858 |

### **Document List:**

#### **Datasheets:**

| Part Number     | Description          | Size   |
|-----------------|----------------------|--------|
| PIC32MX795F512L | Datasheet            | 2.08MB |
| TC1262          | TC1262 Datasheet     | 463KB  |
| MCP1253         | MCP1252/53 Datasheet | 440KB  |

#### **Application Notes:**

| File Name   |       |  |
|---|-------|--|
| AN1108 - Microchip TCP/IP Stack with BSD Socket API for PIC32MX | 430KB |  |
| AN1109 - SNMP Agent using BSD Socket API for PIC32MX            | 682KB |  |
| AN1111 - FTP Server using BSD Socket API for the PIC32MX        | 417KB |  |
| AN1140 - USB Embedded Host Stack                                | 467KB |  |
| AN1141 - USB Embedded Host Stack Programmer?s Guide             | 543KB |  |
| AN1142 - USB Mass Storage Class on an Embedded Host             | 360KB |  |
| AN1143 - Generic Client Driver for a USB Embedded Host          | 263KB |  |
| AN833 - Microchip TCP/IP Stack Application Note                 | 430KB |  |

#### Hardware & Software:

| File Name  | Size   |
|--|--------|
| PIC32 Ethernet Starter Kit Schematics & Gerbers      | 425 KB |
| PIC32 TCPIP BSD Stack Installer                      |        |
| Help File for 128/196/256 bit AES Software for PIC32 | 117 KB |

