

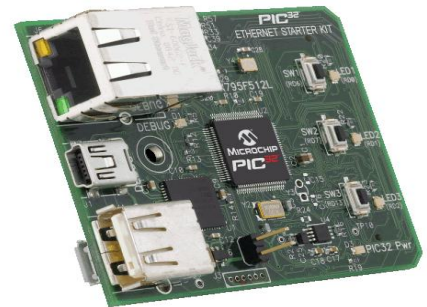


## Microchip - DM320004- PIC32 Ethernet Starter Kit

### Overview:

The PIC32 Ethernet Starter Kit provides the easiest and lowest cost method to experience 10/100 Ethernet development with PIC32. Combined with Microchip's free TCP/IP software, your project will be running in no time. The PIC32 has an available CAN2.0b peripheral and USB host/device/OTG.

The Ethernet Starter Kit has a compatible form factor and expansion connector as other PIC32 Starter Kits.



### Kit Content:

- PIC32 Ethernet Starter Kit 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
- RJ-45 CAT5 Ethernet patch cable – Ethernet CAT5 cable to communicate with the PIC32 Ethernet port
- Software CD

### Key Features:

- PIC32MX795F512L 32-bit microcontroller.
- PIC32MX440F512H USB microcontroller for on-board debugging.
- 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.
- RJ-45 Ethernet port.
- Ethernet 10/100 bus speed indicator LED.
- 50 MHz Ethernet PHY oscillator.
- 32 kHz oscillator (optional).
- USB Host and OTG power supply for powering PIC32 USB applications.

**Ordering Information:**

**Products:**

Part Number	Manufacturer	Farnell P/N	Newark P/N
DM320004	Microchip	1778059	51R8564

**Associated Products:**

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
PIC32MX795F512L-80I/PF	Microchip	MCU, 32BIT, 512K FLASH, USB, 100TQFP	PIC32MX795F512L	1778491	53R0338
TC1262-2.5VDB	Microchip	Voltage Regulator	TC1262	NA	69K0481
MCP1253-33X50I/MS	Microchip	DC/DC Charge Pump Converter IC	MCP1253	1332067	03H5060
DP83848CVV	Microchip	10/100 ETHERNET PHY, SMD, LQFP48	DP83848	1286816	79K6187

**Similar Products:**

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DM320001	Microchip	PIC32MX STARTER KIT	PIC32	1523317	71M0037
DM320002	Microchip	PIC32 I/O Expansion Board	PIC32	1621784	03P1607
DM320003	Microchip	BOARD, DEMO, USB OTG, PIC32	PIC32	1621787	03P1608
DM320003-2	Microchip	KIT, STARTER, USB, PIC32	PIC32	1778060	51R8563
DM330011	Microchip	KIT, STARTER, MPLAB FOR DSPIC	PIC32	1621788	NA

MA320002	Microchip	KIT, PIC32 USB PLUG IN MODULE	PIC32	1558601	88M9291
PIC-P32MX	Olímex	KIT, DEV, PIC32MX340F512 BOARD	PIC32	1701531	25R4926
MA320001	Microchip	PIC32MX360F512L PLUG-IN MODULE	PIC32	1523316	73M8723
AC320002	Microchip	Development Tools & Eval/Demo Boards	PIC32	1621785	07P8858

## Document List:

## Datasheets:

Part Number	Description	Size
PIC32MX795F512L	<a href="#">Datasheet</a>	2.08MB
TC1262	<a href="#">TC1262 Datasheet</a>	463KB
MCP1253	<a href="#">MCP1252/53 Datasheet</a>	440KB

## Application Notes:

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

## Hardware & Software:

File Name	Size
<a href="#">PIC32 Ethernet Starter Kit Schematics &amp; Gerbers</a>	425 KB
<a href="#">PIC32 TCP/IP BSD Stack Installer</a>	4862 KB
<a href="#">Help File for 128/196/256 bit AES Software for PIC32</a>	117 KB