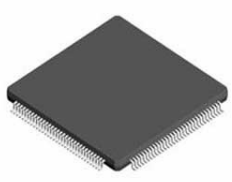
MEC1404-NU

I/O Controller Keyboard and Embedded Controller 128-Pin VTQFP Tray

Manufacturer:	Microchip Technology, Inc
Package/Case:	TQFP128
Product Type:	Discrete Semiconductor Modules
RoHS:	RoHS Compliant/Lead free
Lifecycle:	NRND



Images are for reference only

Inquiry

General Description

TheMEC140X/1X family is a highly-configurable, mixed signal, advanced I/Ocontroller architecture. MEC1404 is a keyboard and embedded controllercustomized for notebooks and tablet platforms. As a cost-effective systemsolution, it incorporates a 32-bit MIPS32 M14K Microcontroller core with128KB of closely-coupled SRAM for code and data that loads from SPIFlash. Designers can leverage the host SPI-flash (used for BIOS storage)for non-volatile EC firmware storage.Microchip's MEC14XX family reduces the system bill-of-materials cost byproviding a flexible arrangement that allows multiple I/O signals to beconfigured to support either 3.3V or 1.8V. This eliminates the need forexternal voltage translators The MEC1406 communicates with the system hostthrough Intel Low Pin Count (LPC) or I2C.All members of the MEC14XX family are pin andregister compatible and are supported by Microchip's developmenttools. Examples include the MPLAB® XC Compilers, the MPLABREAL ICE™In-Circuit Emulator (part # DV244005), MPLAB ICD 3In-Circuit Debugger (part # DV164035) and PICkit™ 3 Starter Kit(part # DV164130).

Family partsMEC1404-NUMEC1404-NU-D0MEC1404-SZ

For product comparison, please consider:MEC1418

Key Features

3.3 V

128K SRAM (Code and Data)

96K Optimized for Code

32K Optimized for Data

MIPS32® M14K™ MIcrocontroller Core

ACPI 3.0 Compliant

PC2001 Compliant

VTR (standby) and VBAT (Power Planes)

Connected Standby Support

LPC Host Interface

8042 Emulated Keyboard Controller

Secure Boot ROM Loader

System to EC Message Interface

Trace FIFO Debug Port (TFDP)

32-bit RTOS Timer

Recommended For You

ATmega8-16PU

Microchip Technology, Inc

DIP

ATmega162-16PU

Microchip Technology, Inc

DIP40

ATmega8515L-8PU

Microchip Technology, Inc

DIP

ATmega324PA-PU

Microchip Technology, Inc

PDIP

ATmega8535-16JU

Microchip Technology, Inc

PLCC44

MEC1428-SZ-C1

Microchip Technology, Inc

WFBGA

ATmega162V-8PU

Microchip Technology, Inc

DIP40

MEC1416-NU

Microchip Technology, Inc

TQFP128

MEC1521H-B0-I/SZ

Microchip Technology, Inc

144-WFBGA

ATmega32-16PU

Microchip Technology, Inc

DIP40

ATmega8535L-8PU

Microchip Technology, Inc

DIP

ATmega324P-20PU

Microchip Technology, Inc

PDIP

ATmega32L-8PU

Microchip Technology, Inc

DIP40

ATmega164A-PU

Microchip Technology, Inc

PDIP

ATmega8U2-AU

Microchip Technology, Inc

QFP32