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Understanding Embedded - Microprocessors

Embedded microprocessors are specialized computing chips designed to perform specific tasks within an embedded system. Unlike general-purpose microprocessors found in personal computers, embedded microprocessors are tailored for dedicated functions within larger systems, offering optimized performance, efficiency, and reliability. These microprocessors are integral to the operation of countless electronic devices, providing the computational power necessary for controlling processes, handling data, and managing communications.

Applications of Embedded - Microprocessors

Embedded microprocessors are utilized across a broad spectrum of applications, making them indispensable in

Details	
Product Status	Discontinued at Digi-Key
Core Processor	i3-4630
Number of Cores/Bus Width	2 Core, 64-Bit
Speed	3.7GHz
Co-Processors/DSP	-
RAM Controllers	-
Graphics Acceleration	-
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	1150-LGA Module
Supplier Device Package	1150-FCLGA
Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mpi3-3-7-4m10t

96MPI3-3.7-4M10T

Intel® Core™ i3-4360 Processor (4M Cache, 3.70 GHz)

Features:
- Intel I3-4360 Processor
- 2 Cores
- 4MB smart cache
- Clock Speed 3.7 GHz
- FCLGA1150 Socket Type
- Max Power Design 54W
- Intel HD Graphics 4600
- Support DDR3- 1333/1600

Specifications

Advantech PN	96MPI3-3.7-4M10T	Direct Media Interface	5 GT/s
Intel Ordering Code	CM8064601482461	Socket Type	FCLGA1150
Intel Launch Date	Q2 / 2014	Max Memory Size	32GB
Code Name	Haswell	Tcase	72C
SPEC Code	SR1PC	Memory Type	DDR3-1333/1600
Processor Number	i3-4360	Intel® Graphic Processor	Intel HD Graphics 4600
# of Cores	2	Graphic Base Frequency	350MHz
# of Threads	4	64-bits Support	YES
Cache	4MB	Package	Tray
Clock Speed	3.7GHz	Embedded Channel	YES
FSB (Front Side Bus)	N/A	RoHs	YES
Tech. in Nanometer	22nm	Compatible Chipset	H87, Q87, Q85, Z87, H81, B85, Z97
Max Design Power	54W		

Compatible Motherboard

Model Number	Description
AIMB-274 Series	Intel® Core™ i7/i5/i3 LGA 1150 Mini-ITX with VGA/DP/HDMI(DP)/LVDS(eDP), 2COM, Dual LAN, PCIe x16
AIMB-784 Series	Intel® 4th Generation Core Processor-based platform

Learn more on PAPS Website

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All product specification and compatible chipset are subject to change without notice.

Last updated: 23-Sep-2014
Rev. 1.0