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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	i5-4590S
Number of Cores/Bus Width	4 Core, 64-Bit
Speed	3.0GHz
Co-Processors/DSP	-
RAM Controllers	-
Graphics Acceleration	Yes
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	1150-LGA Module
Supplier Device Package	1150-LGA
Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mpi5-3-0-6m10t

96MPI5-3.0-6M10T

Intel® Core™ i5-4590S Processor (6M Cache, up to 3.0 GHz)

Features:
- Intel I5-4590S Processor
- 4 Cores
- 6M smart cache
- LGA1150 Socket Type
- Intel HD Graphics 4600 support
- 22NM
- 65W

Specifications

Advantech PN	96MPI5-3.0-6M10T	Direct Media Interface	5GT/s
Intel Ordering Code	CM8064601561214	Socket Type	LGA1150
Intel Launch Date	Q2 / 2014	Max Memory Size	32GB
Code Name	Haswell	Tcase	71.35C
SPEC Code	SR1QN	Memory Type	DDR3-1333/1600
Processor Number	i5-4590S	Graphic Processor	HD Graphic 4600
# of Cores	4	Graphic Base Frequency	350MHz
# of Threads	4	64-bits Support	YES
Cache	6MB	Package	Tray
Clock Speed	2.0GHz	Embedded Channel	YES
FSB (Front Side Bus)	N/A	RoHs	YES
Tech. in Nanometer	22nm	Compatible Chipset	H81, Z87, Q87, Q85, B85, H87
Max Design Power	65W		

Compatible Motherboard

Model Number	Description
AIMB-784 Series	Intel® 4th Generation Core Processor-based platform

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

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