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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	i7-4790S
Number of Cores/Bus Width	4 Core, 64-Bit
Speed	3.2GHz
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/96mpi7-3-2-8m10t

96MPI7-3.2-8M10T

Intel® Core™ i7-4790S Processor (8M Cache, up to 3.20 GHz)

Features:

- Intel I7-4790S Processor
- 4 Cores
- 8M smart cache
- LGA1150 Socket Type
- Intel HD Graphics 4600 support
- Tech in nm: 22NM
- Max Design Power 45W
- Support DDR3-1333/1600

RoHS COMPLIANT

Specifications

Advantech PN	96MPI7-3.2-8M10T	Direct Media Interface	5 GT/s
Intel Ordering Code	CM8064601561014	Socket Type	LGA1150
Intel Launch Date	Q2 / 2014	Max Memory Size	32GB
Code Name	Haswell	Tcase	71.35C
SPEC Code	SR1QM	Memory Type	DDR3-1333/1600
Processor Number	i7-4790S	Intel® Graphic Processor	HD Graphic 4600
# of Cores	4	Graphic Base Frequency	350MHz
# of Threads	8	64-bits Support	YES
Cache	8MB	Package	Tray
Clock Speed	3.2GHz	Embedded Channel	YES
FSB (Front Side Bus)	N/A	RoHs	YES
Tech. in Nanometer	22nm	Compatible Chipset	Z97, H81, H87, Q87, Q85, Z87, B85
Max Design Power	45W		

Compatible Motherboard

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

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