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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	Xeon E5-2640 v2
Number of Cores/Bus Width	8 Core, 64-Bit
Speed	2.0GHz
Co-Processors/DSP	-
RAM Controllers	-
Graphics Acceleration	-
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	2011-LGA Module
Supplier Device Package	2011-LGA
Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mpxei-2-0-20m20t

96MPXEI-2.0-20M20T

Intel® Xeon® Processor E5-2640 v2 (20M Cache, 2.00 GHz)

Features:
- Intel Xeon E5-2640 v2 Processor
- 8 Cores
- 20MB Cache
- Clock Speed 2.0GHz
- QPI Speed 7.2GT/s
- FCLGA2011 Socket Type
- Tech in 22NM
- Max TDP 95W
- Support DDR3-800/1066/1333/1600

Specifications

Advantech PN	96MPXEI-2.0-20M20T	Direct Media Interface	N/A
Intel Ordering Code	CM8063501288202	Socket Type	FCLGA2011
Intel Launch Date	Q3 / 2013	Max Memory Size	768GB
Code Name	Ivy Bridge-EP	Tcase	75C
SPEC Code	SR19Z		
Processor Number	E5-2640 v2	Memory Type	DDR3-800/1066/1333/1600
# of Cores	8	Intel® Graphic Processor	NO
# of Threads	16	Graphic Base Frequency	N/A
Cache	20MB	64-bits Support	YES
Clock Speed	2.0GHz	Package	Tray
QPI Speed	7.2GT/s	Embedded Channel	YES
Tech. in Nanometer	22nm	RoHs	YES
Max TDP	95W	Compatible Chipset	8900CC, 8903CC, 8910CC, 8920CC, 8925, 8926, 8950, 8955

Compatible Motherboard

Model Number	Description

Learn more on PAPS Website