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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	i3-6100
Number of Cores/Bus Width	2 Core, 64-Bit
Speed	3.7GHz
Co-Processors/DSP	-
RAM Controllers	-
Graphics Acceleration	Yes
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	1151-LGA Module
Supplier Device Package	1151-FCLGA
Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mpi3s-3-7-3m11t

96MPI3S-3.7-3M11T

Intel® Core™ i3-6100 Processor (3M Cache, 3.70 GHz)

Features:
- Intel I3-6100 Processor
- 2 Cores
- 4MB smart cache
- Processor Base Frequency 3.7 GHz
- FCLGA1151 Socket Type
- Thermal Design Power 51W
- Intel HD Graphics 530
- Support DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V

Specifications

Advantech PN	96MPI3S-3.7-3M11T		Direct Media Interface	8 GT/s
Intel Ordering Code	CM8066201927202		Socket Type	FCLGA1151
Intel Launch Date	Q3 / 2015		Max Memory Size	64GB
Code Name	Skylake		Tcase	65C
SPEC Code	SR2HG		Memory Type	DDR4-1866/2133, DDR3L-1333/1600 @ 1.35V
Processor Number	i3-6100			
# of Cores	2		Intel® Graphic Processor	Intel HD Graphics 530
# of Threads	4		Graphic Base Frequency	350MHz
Cache	4MB		64-bits Support	YES
Clock Speed	3.7GHz		Package	Tray
FSB (Front Side Bus)	N/A		Embedded Channel	YES
Tech. in Nanometer	14nm		RoHs	YES
Max Design Power	51W		Compatible Chipset	H170, H110, Z170, Q170, Q150, B150

Compatible Motherboard

Model Number	Description

Learn more on PAPS Website