Welcome to E-XFL.COM

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	Active
Core Processor	i7-620M
Number of Cores/Bus Width	2 Core, 64-Bit
Speed	2.66GHz
Co-Processors/DSP	-
RAM Controllers	-
Graphics Acceleration	Yes
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	988-PGA Module
Supplier Device Package	988-Micro-FCPGA
Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mpi7m-2-66-4m9t

Intel® Core™ i7 Mobile Processor I7-620M

Processor Specifications:

sSpec Number:	SLBPD	Package Type:	Micro-FCPGA
CPU Speed:	2.666 GHz	Manufacturing Technology:	32 nm
PCG:		Core Stepping:	C2
Bus Speed:	4.8 GT/s	CPUID String:	20652h
Bus/Core Ratio:		Thermal Design Power:	35W
L3 Cache Size:	4 MB	Thermal Specification:	105°C
L3 Cache Speed:		VID Voltage Range:	

Product Documentation:

Product Order Codes:

Box Order Code:

OEM Order Code: CP80617003981AH

Supported Features:

- Dual Core
- Enhanced Intel Speedstep® Technology
- Intel® EM64T [1]
- Intel® Virtualization Technology
- Enhanced Halt State (C1E)
- Execute Disable Bit [2]

Notes:

Features Intel® Turbo Boost Technology