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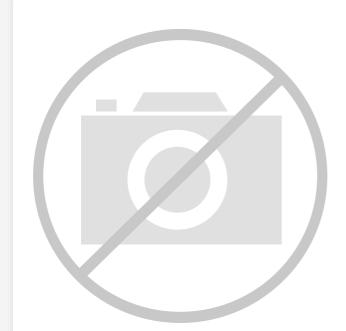
Understanding Embedded - Microprocessors

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	Obsolete
Core Processor	Celeron T3100
Number of Cores/Bus Width	-
Speed	1.9GHz
Co-Processors/DSP	-
RAM Controllers	-
Graphics Acceleration	-
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	478-LGA Module
Supplier Device Package	478-LGA
Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mpcl-1-9f8-1m4t

Mobile Intel® Celeron® Processors T3100

Processor Specifications:

sSpec Number:	SLGVS	Package Type:	Micro-FCBGA
CPU Speed:	1.90 GHz	Manufacturing Technology:	45 nm
PCG:		Core Stepping:	R0
Bus Speed:	800 MHz	CPUID String:	
Bus/Core Ratio:	9.5	Thermal Design Power:	35W
L2 Cache Size:	1 MB	Thermal Specification:	105°C
L2 Cache Speed:	1.9 GHz	VID Voltage Range:	1.00V-1.250V

Product Order Codes:

Box Order Code: **OEM Order Code:**   AV80577NG0371M

Supported Features:

- Dual Core
- Intel® EM64T [1]
- Execute Disable Bit [2]

Notes:

Legal Disclaimers:

1 Intel® EM64T requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel EM64T. Processor will not operate (including 32-bit operation) without an Intel EM64T-enabled BIOS. Performance will vary depending on your hardware and software configurations. See http://www.intel.com/info/em64t for more information including details on which processors support Intel® EM64T or consult with your system vendor for more information.

2 Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.