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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 G1620
Number of Cores/Bus Width	2 Core, 64-Bit
Speed	2.7GHz
Co-Processors/DSP	-
RAM Controllers	-
Graphics Acceleration	-
Display & Interface Controllers	-
Ethernet	-
SATA	-
USB	-
Voltage - I/O	-
Operating Temperature	-
Security Features	-
Package / Case	1155-LGA Module
Supplier Device Package	1155-FCLGA
Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mpcl-2-7-2m11t

Intel® Celeron® Processor G1620 (2M Cache, 2.70 GHz)

SPECIFICATIONS

Essentials

Status	Launched
Launch Date	Q1 '13
Processor Number	G1620
# of Cores	2
# of Threads	2
Clock Speed	2.7 GHz
Intel® Smart Cache	2 MB
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1, 4.2
Embedded Options Available	Yes
Lithography	22 nm
Max TDP	55 W
Recommended Customer Price	TRAY: $52.00 BOX : $52.00

Memory Specifications

Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1333
# of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported	Yes

Graphics Specifications

Processor Graphics	Intel® HD Graphics
Graphics Base Frequency	650 MHz
Graphics Max Dynamic Frequency	1.05 GHz
Intel® Quick Sync Video	No
Intel® InTru™ 3D Technology	No
Intel® Insider™	No
Intel® Wireless Display	No
Intel® Clear Video HD Technology	No
# of Displays Supported	3

Expansion Options

PCI Express Revision	2.0
PCI Express Configurations	1x16, 2x8, 1x8 & 2x4

Package Specifications

Max CPU Configuration	1
Package Size	37.5mm x 37.5mm
Sockets Supported	FCLGA1155
Low Halogen Options Available	See MDDS

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Ordering and Spec Information
Intel® Celeron® Processor G1620 (2M Cache, 2.70 GHz) FC-LGA12C, Tray

Socket	Step	TDP	Ordering Code	Spec Code	VT-x	ECCN	CCATS	US HTS	RCP
FCLGA1155	P0	55 W	CM8063701445001	SR10L		5A992A	NA	8542310000-HYBRD	$52.00