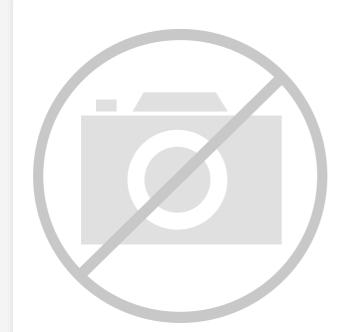
E·XFL



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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

Purchase URL	https://www.e-xfl.com/product-detail/advantech/96mpcl-2-5-2m11t
Supplier Device Package	1155-FCLGA
Package / Case	1155-LGA Module
Security Features	-
Operating Temperature	-
Voltage - I/O	-
USB	-
SATA	-
Ethernet	-
Display & Interface Controllers	-
Graphics Acceleration	-
RAM Controllers	-
Co-Processors/DSP	-
Speed	2.5GHz
Number of Cores/Bus Width	2 Core, 64-Bit
Core Processor	Celeron G540
Product Status	Active

Email: info@E-XFL.COM

Address: Room A, 16/F, Full Win Commercial Centre, 573 Nathan Road, Mongkok, Hong Kong



Intel® Celeron® Processor G540 (2M Cache, 2.50 GHz)

Specifications

Essentials	
Status	Launched
Launch Date	Q3'11
Processor Number	G540
# of Cores	2
# of Threads	2
Clock Speed	2.5 GHz
Intel® Smart Cache	2 MB
Bus/Core Ratio	25
DMI	5 GT/s
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1/4.2
Embedded Options Available	Yes
Lithography	32 nm
Max TDP	65 W
Recommended Customer Price	\$52 - \$58

Memory Cresifications	
Memory Specifications	
Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1066
# of Memory Channels	2
Max Memory Bandwidth	21 GB/s
Graphics Specifications	
Processor Graphics	Intel® HD Graphics
Graphics Base Frequency	850 MHz
Graphics Max Dynamic Frequency	1 GHz
Intel® Quick Sync Video	No
Intel® InTru™ 3D Technology	No
Intel® Insider™	No
Intel® Wireless Display	No
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	No
Dual Display Capable	Yes
Expansion Options	
PCI Express Revision	2.0
Package Specifications	
Max CPU Configuration	1
TCASE	69.1°C
Package Size	37.5mm x 37.35mm
Sockets Supported	FCLGA1155
Low Halogen Options Available	Yes

Advanced Technologies		
Intel® Turbo Boost Technology		No
Intel® vPro Technology		No
Intel® Hyper-Threading Technology	P	No
Intel® Virtualization Technology (VT-x)	۶	Yes
Intel® Virtualization Technology for Directed I/O (VT-d)	P	No
Intel® Trusted Execution Technology	P	No
AES New Instructions	P	No
Intel® 64	P	Yes
Idle States		Yes
Enhanced Intel SpeedStep® Technology	۶	Yes
Thermal Monitoring Technologies		Yes
Intel® Fast Memory Access		Yes
Intel® Flex Memory Access		Yes
Execute Disable Bit		Yes

ORDERING AND SPEC INFORMATION

Ordering and Spec Information

Intel® Celeron® Processor G540 (2M Cache, 2.50 GHz) FC-LGA10D, Tray

Socket	Step	Step TDP	Ordering Code	Spec Code	Low Halogen	VT-x
FCLGA1155		65 W	CM8062301046804	SR05J	Yes	Yes

Boxed Intel® Celeron® Processor G540 (2M Cache, 2.50 GHz) FC-LGA10D

Socket	Step	Step TDP	Ordering Code	Spec Code	Low Halogen	VT-x
FCLGA1155		65 W	BXC80623G540	SR05J	Yes	Yes