CPU-161-17

COM Express Compact Type 6 - Intel Core and Celeron





- 6th Gen Intel® Core™
- COM Express® Compact Type 6
- Triple Display, 8 PCle Lanes
- Extended Temperature
- Fanless
- Customization Options
- IoT Middleware and Platform

Features

Powerful - Comes with 6th Gen Intel Core CPUs: Core i7, i5, i3 and Celeron dual core configurations, up to 2.6GHz (3.4GHz burst)

Compact - Complies with PICMG COM Express R2.1, with a 95x95 (Compact) form factor and a Type 6 pinout

Rich - Delivers multiple interfaces, including three independent video ports, 8 PCIe lanes, three SATA interfaces with RAID and much more

Rugged - Supports wide operating temperature (-40 to +85°C) and conformal coating options

Low Power - Enables fanless designs with DDR3L and a CPU TDP of only 15W

Professional Services - Cuts Time-To-Market with Eurotech Professional Services, which include deep module customization, BIOS personalization, carrier board and system design and production

IoT Native - Provides native support for IoT, including IoT middleware and access to Eurotech IoT Integration Platform

Description

The CPU-161-17 is a rugged COM Express module designed to deliver intense computation while meeting the requirements for industrial and rugged fanless applications.

Compliant with PICMG COM Express R2.1, Type 6, the CPU-161-17 is a 95x95mm (Compact) form factor module based on the 6th Generation Intel Core processor family (i7, i5, i3 and Celeron), with two cores and up to 16GB SO-DIMM RAM.

Other features include high speed interfaces: one Gbit Ethernet, three SATA 3.0 with RAID support, four USB 3.0 and eight USB 2.0, eight PCIe Gen 3 lanes, and three independent video ports (LVDS, VGA and DDI supporting up to 4096x2304@60Hz).

The CPU-161-17 is a solid building block for projects where reliability in harsh conditions is mandatory, and long term availability is a must, thanks to an operating temperature of -40 to $+85^{\circ}$ C, support for RAID 0/1/5, optional conformal coating and long term support/lifecycle programs.

Supported operating systems include Windows 10 IoT Enterprise and Linux; moreover, the CPU-161-17 supports <u>Everyware Software Framework (ESF)</u>, a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/OSGi middleware for <u>IoT gateways</u>. Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning, remote access and full integration with Everyware Cloud (EC), Eurotech IoT integration platform (separately available).

Professional Services are available for the CPU-161-17, starting from BIOS personalization and including carrier board design, system development and production. Deep module customization, such as feature changes are also available.



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		Ordering code: CPU-161-17	-XX		
	хх	- 01	- 02	- 03	
PROCESSOR	CPU	Celeron 3955U 2 0GHz, 2 Cores	Core i5 6300U 2.4GHz (3.4GHz), 2 Cores	Core i7 6600U 2.6GHz (3.4GHz), 2 Cores	
BIOS	Туре		Insyde		
	Size		SPI 128Mbit		
MEMORY	RAM	2x SODIMM Sockets - up to 16GB DDR3L 1600MHz - Dual Channel			
STORAGE	SATA	2x SATA 3.0 (up to 6Gb/s)	Sb/s) 3x SATA 3.0 (up to 6Gb/s)		
	RAID	No	RAID 0/1/5		
I/O INTERFACES	Ethernet	1x 10/100/1000Mbps	1x 10/100/1000Mbps (iAMT Support)		
	USB	4x USB 3.0, 8x USB 2.0			
	Serial	2x Serial (TX/RX)			
	Digital I/O	8x DI/O			
	Video	Intel HD Graphics GT Series, Triple Independent Displays: 1x VGA (up to 2560x1600 @60Hz), 1x LVDS (up to 1920x1200 @60Hz, Dual Channel, 24bit), 1x DDI (HDMI: up to 4096x2160 @60Hz / 2560x1600 @60Hz - DP++: up to 4096x2304 @60Hz)			
	Audio	HD Audio			
	PCI Express	5x PCle x1, or 4x PCle x1 + 1x PCle x4, or 3x PCle x1 + 2x PCle x2 (up to 5 Devices and 8 Lanes, Gen 3)			
	LPC	Yes			
	12C	Yes			
	SMBus	Yes			
OTHER	RTC	Yes			
	Watchdog	Sof	Software Programmable (from 1 to 255s)		
	TPM		Factory Option		
POWER	Input	12V, 5VSB, VC	12V, 5VSB, VCC_RTC (ATX Mode) – 12V, VCC_RTC (AT Mode)		
	Consumption		15W (CPU TDP)		
ENVIRONMENT	Operating Temp		- 40 to +85°C (Temperature Screened)		
	Storage Temp		- 40 to +85°C		
CERTIFICATIONS	Environmental		RoHS2, REACH		
	Compliance		PICMG COM Express R21, Type 6		
MECHANICAL	Dimensions	95x1	95mm (LxW) - COM Express Com	pact	

Supported Software			
SOFTWARE	OS	CentOS 7, Windows 10 IoT Enterprise (Professional Services: Yocto, Fedora, Other Linux and RTOS)	
	IoT Framework	Everyware Software Framework (Java/OSGi)	



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全国免费电话: 400-999-3848



