**CPU-521-17** Mini-ITX SBC - Intel Core and Celeron





- 6th Gen Intel® Core™
- Low Profile, Mini-ITX
- Three Displays, RAID, SIM, mPCle
- Wide Operating 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) **Versatile** - Fits easily everywhere, with the low profile Mini-ITX form factor, while offering a wide range of standard interfaces **Rich** - Delivers multiple interfaces, including three independent video ports, two Mini PCIe sockets, two SATA interfaces with RAID, a SIM slot and much more

**Rugged** - Supports wide operating temperature (-20 to +70°C), soldered-down CPU 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-521-17 is a rugged Mini-ITX Single Board Computer designed to deliver intense computation while meeting the requirements for industrial and rugged fanless applications.

Low-profile at just 16.5mm, the CPU-521-17 offers 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: two Gbit Ethernet, two SATA 3.0 with RAID support, four USB 3.0 and four USB 2.0, two full-size Mini PCIe sockets, four PCIe Gen 3 lanes, and three independent video ports (LVDS, DP++ and HDMI supporting up to 4096x2304@60Hz).

The CPU-521-17 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 -20 to +70°C, a soldered-down CPU, support for RAID 0/1, optional conformal coating and long term support/lifecycle programs.

Supported operating systems include Windows 10 IoT Enterprise and Linux; moreover, the CPU-521-17 supports <u>Everyware Software</u> <u>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 <u>Everyware Cloud (EC), Eurotech's IoT integration platform</u> (separately available).

Professional Services are available for the CPU-521-17, starting from BIOS personalization and including carrier board design, system development and production. Deep module customization, such as feature changes are also available.

## CPU-521-17 Mini-ITX SBC - Intel Core and Celeron

Ordering code: CPU-521-17-XX					
XX		- 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 Soc	2x SODIMM Sockets - Up to 16GB DDR3L 1600MHz - Dual Channel		
STORAGE	SATA	2x SATA 3.0 (up to	2x SATA 3.0 (up to 6Gb/s), 1x Mini SATA Slot (Shared with PCIe/USB)		
	RAID		RAID 0/1		
I/O INTERFACES	Ethernet	2x 10/100/1000Mbps (I210AT + I219LM)	2x 10/100/1000Mbps (I210AT	+ 1219LM - With iAMT Support)	
	USB	4x	4x USB 3.0 (Type A), 4x USB 2.0 (Header)		
	Serial	2x RS-232/RS-422/R	2x RS-232/RS-422/RS-485 (RS-232 With Power, Header), 2x RS-232 (Header)		
	Digital I/O		8x DI/O		
	Video		Intel HD Graphics GT Series, Triple Independent Displays: 1x HDMI (up to 4096x2160 @24Hz / 2560x1600 @60Hz), 1x LVDS (up to 1920x1200 @60Hz, Dual Channel, 48 bit), 1x DP++ (up to up to 4096x2304 @60Hz)		
	Display	1x LVD	1x LVDS LCD Connector, 1x LCD Inverter Power		
	Audio		1x Line-out, 1x Mic-in		
	PCI Express		1x PCle x4(Gen 3) Slot – 1x Full/Half Size Mini PCle Slot (PCle/USB/mSATA Signals) – 1x Full/Half Size Mini PCle Slot (PCle/USB/SIM Signals)		
	LPC		Yes		
	12C		Yes		
	SMBus		Yes		
OTHER	RTC		Yes (Lithium 3V 210mAh Battery)		
	Watchdog	Soft	Software Programmable (From 1 to 255s)		
	TPM		Factory Option		
	SIM Slot		Yes		
POWER	Input		12V (DC-in, Screw-lock Jack)		
ENVIRONMENT	Operating Temp	- 2	- 20 to +70°C (Temperature Screened)		
	Storage Temp		- 40 to +85°C		
CERTIFICATIONS	Environmental		RoHS2, REACH		
	Compliance		Mini-ITX		
MECHANICAL	Dimensions	170x170mm (LxW	') - Height: 3.5/1.6/16.5mm (Bottor	m, PCB, Top Sides)	

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



需要详细信息?请通过sales@hkaco.com联系我们

全国免费电话: 400-999-3848





hkaco.com

Note: The information in this document is subject to change without notice and should not be construed as a commitment by EUROTECH. While reasonable precautions have been taken, EUROTECH assumes no responsibility for any error that may appear in this document. All trademarks or registered trademarks are the properties of their respective companies.