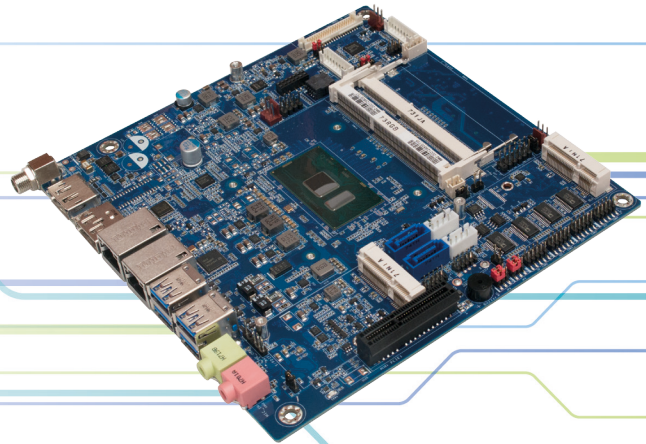


CPU-521-17

- 6th Gen Intel® Core™
- Low Profile, Mini-ITX
- Three Displays, RAID, SIM, mPCIe
- 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, 2 Mini PCIe sockets, 2 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

The CPU-521-17 is a rugged Mini-ITX module 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 Everyware Software Framework (ESF), a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/OSGi middleware for IoT gateways.

Distributed and supported by Eurotech, ESF adds advanced security, diagnostics, provisioning, remote access and full integration with Everyware Cloud (EC), Eurotech's IoT integration platform (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.

Specifications

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	Type	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)		
	RAID	RAID 0/1		
I/O INTERFACES	Ethernet	2x Gbit/s (I210AT + I219LM)	2x Gbit/s (I210AT + I219LM - With iAMT Support)	
	USB	4x USB 3.0 - Type A 4x USB 2.0 (Header)		
	Serial	2x RS-232/422/485 (Header, RS-232 With Power) 2x RS-232 (Header)		
	CAN 2.0B	No		
	Digital I/O	8x DI/O		
	Video	Intel HD Graphics GT Series - Triple Independent Displays 1x DP++ (up to up to 4096x2304 @60Hz) 1x LVDS (up to 1920x1200 @60Hz, Dual Channel, 48 bit) 1x HDMI (up to 4096x2160 @24Hz / 2560x1600 @60Hz)		
	Display	1x LVDS LCD Connector, 1x LCD Inverter Power		
	Audio	1x Line-out, 1x Mic-in		
	PCI Express	1x PCIe x4 (Gen 3), 1x Full/Half Size Mini PCIe (PCIe/USB/mSATA) 1x Full/Half Size Mini PCIe (PCIe/USB)		
	LPC	Yes		
	I2C	Yes		
	SMBus	Yes		
OTHER	RTC	Yes		
	RTC Battery	Lithium 3V (210mAh)		
	Watchdog	Software Programmable (From 1 to 255s)		
	SIM Slot	Yes		
	TPM	Factory Option		
POWER	Input	12V (DC-in, Screw-lock Jack)		
	Consumption		12V @0.95A (11.40W) Typ. 12V @1.58A (18.96W) Max.	12V @0.98A (11.76W) Typ. 12V @1.62A (19.44W) Max.
ENVIRONMENT	Operating Temp	- 20 to +70°C (Temperature Screened)		
	Storage Temp	- 40 to +85°C		
CERTIFICATIONS	Regulatory	CE, FCC		
	Environmental	RoHS2, REACH		
	Compliance	MiniITX		
	MTBF	357.691hrs @25° 206.450hrs @45° 130.229hrs @60° Telcordia Issue 2, Method I Case 3 (Environment: GB, GC - Ground Benign, Controlled)		
MECHANICAL	Dimensions	Mini-ITX - 170x170mm (LxW) - Height: 3.5/1.6/16.5mm (Bottom, PCB, Top Sides)		

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SUPPORTED SOFTWARE

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

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