



- **Ready to Plug**
- **Intel® Core™ 6th Generation**
- **Triple Display, SIM, mPCIe**
- **Fanless**
- **Professional Services**

Features

Mini-ITX Launchpad - A Mini-ITX Development Kit that provides a complete platform for development, validation and testing of the CPU-521-17

All Inclusive - Bundles one Mini-ITX Single Board Computer and a complete set of cables and accessories, including the operating system preinstalled on an mSATA drive

Rugged and Performant - The CPU-521-17 supports wide operating temperature (- 20 to +70°C) and it is powered by Intel Core i7, i5, i3 and Celeron CPUs, up to two cores and 15W TDP

Feature Rich - Provides a wide range of standard interfaces, including triple display, two Gbit Ethernet, one PCIe x4 slot, two Mini PCIe sockets, two SATA 3.0 ports, and a SIM slot

Professional Services - Constitutes the first step for Eurotech Professional Services, that range from carrier board development to complete system design, certification and manufacturing

Description

The CPU-521-17 Development Kit allows a quick development and prototyping of embedded applications on a pre-validated platform which brings out a rich set of the chipset functionalities. The kit targets all aspects of an embedded application from hardware interfacing to development of on-board software.

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, 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.

Professional Services are available for the CPU-521-17, starting from BIOS personalization and including board design, system development and production.

Ordering code: CPU-521-17-XX-DK01

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PROCESSOR	CPU	Celeron 3955U 2.0GHz, 2 Cores	Core i7 6600U 2.6GHz (3.4GHz), 2 Cores
MEMORY	RAM	2x SODIMM Sockets - up to 16GB DDR3L 1600MHz - Dual Channel	
STORAGE	SATA	2x SATA 3.0 (up to 6Gb/s), 1x Mini SATA Slot (Shared with PCIe/USB)	
I/O INTERFACES	Ethernet	2x 10/100/1000Mbps - RJ45	
	USB	4x USB 3.0 (Type A), 4x USB 2.0 (Header)	
	Serial	2x RS-232 (Header), 2x RS-232/RS-422/RS-485 (Header)	
	Video	Triple Independent Displays: 1x LVDS* (Header), 1x HDMI, 1x DisplayPort++	
	Audio	HD Audio: 1x Line-out, 1x Mic-in (3.5mm Jack), 1x S/PDIF (Header)	
	PCI Express	1x PCIe x4 (Gen 3) Slot – 1x Full/Half Size Mini PCIe Slot (PCIe/USB/mSATA Signals) – 1x Full/Half Size Mini PCIe Slot (PCIe/USB/SIM Signals)	
OTHER	RTC	Yes (Lithium 3V 210mAh Battery)	
	Fan Conn.	2x System Fan	
	LEDs	1x SATA Activity	
	Buttons	1x Power-on, 1x Reset	
POWER	Input	12V (DC-in, Screw-lock Jack)	

For more specifications and certifications, please check the CPU-521-17 datasheet.

Pre-installed Software

SOFTWARE	OS	CentOS 7
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Included Accessories

MEMORY	RAM	2x 2GB DDR3L SODIMM Modules
STORAGE	SSD	1x 64GB mSATA SSD MLC
I/O INTERFACES	SATA	2x SATA Data and Power Cable
	USB	2x Dual USB 2.0 Female Cables
	Serial	4x Serial DB9 Male Cables
	Video	1x DP Male to HDMI Female Adapter
POWER SUPPLY	AC-DC PSU	1x 100W 100/240VAC-in 12VDC-out (Jack Conn. with Screw) Level VI Power Supply Unit
	Cables	3x Power Cables (US, JP, EU, UK)
OTHER	Heatsink	1x Heatsink

(*) LVDS Support requires BIOS customization.