



- **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

XX		- 01	- 03
<b>PROCESSOR</b>	CPU	Celeron 3955U 2.0GHz, 2 Cores	Core i7 6600U 2.6GHz (3.4GHz), 2 Cores
<b>MEMORY</b>	RAM	2x SODIMM Sockets - up to 16GB DDR3L 1600MHz - Dual Channel	
<b>STORAGE</b>	SATA	2x SATA 3.0 (up to 6Gb/s), 1x Mini SATA Slot (Shared with PCIe/USB)	
<b>I/O INTERFACES</b>	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)	
<b>OTHER</b>	RTC	Yes (Lithium 3V 210mAh Battery)	
	Fan Conn.	2x System Fan	
	LEDs	1x SATA Activity	
	Buttons	1x Power-on, 1x Reset	
<b>POWER</b>	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

## Included Accessories

<b>MEMORY</b>	RAM	2x 2GB DDR3L SODIMM Modules
<b>STORAGE</b>	SSD	1x 64GB mSATA SSD MLC
<b>I/O INTERFACES</b>	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
<b>POWER SUPPLY</b>	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)
<b>OTHER</b>	Heatsink	1x Heatsink

(\*) LVDS Support requires BIOS customization.