CPU-521-17 Development Kit

Mini-ITX SBC - Intel Core and Celeron





- Ready to Plug
- Intel® Core™ 6th Generation
- Triple Display, SIM, mPCle
- 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.

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Ordering code: CPU-521-17-XX-DK01				
XX		-01 -03		
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 PCle/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 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)		
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		

Included Accessories				
MEMORY	RAM	2x 2GB DDR3L SODIMM Modules		
STORAGE	SSD	1x 64GB mSATA SSD MLC		
	SATA	2x SATA Data and Power Cable		
I/O INTERFACES	USB	2x Dual USB 2.0 Female Cables		
I/O INTERFACES	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.

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