

CPU-161-17 Development Kit

COM Express Compact Type 6 - Intel Core and Celeron



- Ready to Plug
- Intel® Core™ 6th Generation
- Triple Display, 8 PCIe Lanes
- Fanless
- Professional Services

Features

COM Express Launchpad - A COM Express Type 6 Development Kit that provides a complete platform for development, validation and testing of the CPU-161-17

All Inclusive - Bundles one COM Express module, one microATX carrier board and a complete set of cables and accessories, including the operating system preinstalled on an SSD drive

Rugged and Performant - The CPU-161-17 supports wide operating temperature (- 40 to +85°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 carrier board with plenty of interfaces, including triple display, one Gbit Ethernet, three PCIe x1 slots, two Mini PCIe sockets, and three SATA 3.0 ports

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-161-17 Development Kit allows a quick development and prototyping of embedded applications on a pre-validated platform which brings out a rich set of the module functionalities. The kit targets all aspects of an embedded application from hardware interfacing to development of on-board software.

Compliant with PICMG COM Express R2.1, Type 6, the CPU-161-17 is a 95x95mm (Compact) form factor module based on 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: one Gbit Ethernet, three SATA 3.0 with RAID support, four USB 3.0 and eight USB 2.0, eight PCIe Gen 3 lanes, and three independent video ports (LVDS, VGA and DDI supporting up to 4096x2304@60Hz).

The CPU-161-17 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 - 40 to +85°C, support for RAID 0/1/5, optional conformal coating and long term support/lifecycle programs.

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Ordering code: CPU-161-17-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)	3x SATA 3.0 (up to 6Gb/s)
I/O INTERFACES	Ethernet	1x 10/100/1000Mbps - RJ45	
	USB	4x USB 3.0, 4x USB 2.0 - Type A	
	Serial	2x UART TX/RX (Header), 4x RS-232 9-wires (Header)	
	Video	Triple Independent Displays: 1x LVDS* (Header), 1x VGA (Header), 1x DisplayPort	
	Audio	HD Audio: 1x Line-In, 1x Line-out, 1x Mic-in (3.5mm Jack), 1x Front Audio (Header), 1x S/PDIF (Header)	
	PCI Express	3x PCIe x1 (Gen 3) Slots – 2x Full/Half Size Mini PCIe Slots (PCIe Signal Only)	
OTHER	RTC	Yes (Lithium 3V 210mAh Battery)	
	Fan Conn.	1x CPU Fan, 1x System Fan	
	LEDs	1x SATA Activity, 1x Debug	
	Buttons	1x Power-on, 1x Reset	
POWER	Input	12V (DC-in, Screw-lock Jack)	

For more specifications and certifications, please check the CPU-161-17 datasheet.

Pre-installed Software

SOFTWARE	OS	CentOS 7
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Included Accessories

BASEBOARD	CARRIER BOARD	CAR-363-13 microATX COM Express Carrier Board
MEMORY	RAM	2x 2GB DDR3L SODIMM Modules
STORAGE	SSD	1x 2.5" 64GB SATA SSD MLC
I/O INTERFACES	SATA	3x SATA 3.0 Data Cables, 1x SATA Power Cable
	Serial	1x LPC to Serial RS-232 Expansion Module – 4x Serial DB9 Male Cables
	Video	1x DP Male to HDMI Female Adapter, 1x VGA Cable
POWER SUPPLY	DC-DC PSU	1x 150W DC-DC ATX Power Supply Unit
	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.