CPU-162-22 Development Kit



FEATURES

COM Express Launchpad - A COM Express Type 6 Development Kit that provides a complete platform for development, validation and testing of the CPU-162-22

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-162-22 supports wide operating temperature (- 40 to +85°C) and it is powered by Intel Core i7, i5, i3 and Celeron CPUs, up to four cores

Feature Rich - Provides a carrier board with plenty of interfaces, including triple display, six PCle x1 slots, one PEG slot, two Mini PCle sockets, and four 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

The CPU-162-22 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-162-22 is a 95x125mm (Basic) form factor module based on the 6^{th} Generation Intel Core processor family (i7, i5, i3 and Celeron), up to four cores and up to 32GB SO-DIMM RAM.

Other features include high speed interfaces: one Gbit Ethernet, four SATA 3.0 with RAID support, four USB 3.0 and eight USB 2.0, eight and sixteen PCle Gen 3 lanes, and three independent video ports (LVDS, VGA and DDI supporting up to 4096x2304@60Hz).

The CPU-162-22 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 0/1/5/10, optional conformal coating and long term support/lifecycle programs.



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Embedded Board Development Kit

Specifications

	Orde	ring code: CPU-162-22-XX-DK01		
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PROCESSOR	СРИ	Core i5 6442EQ 1.9GHz (2.7GHz), 4 Cores	Core i7 6822EQ 2.0GHz (2.8GHz), 4 Cores	
MEMORY	RAM	2x SODIMM Sockets - Up to 32GB DDR4 2133MHz - Dual Channel		
STORAGE	SATA	4x SATA 3.0 (up to 6Gb/s)		
I/O INTERFACES	Ethernet	1x 10/100/1000Mbps - RJ45		
	USB	4x USB 2.0/3.0, 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 2x 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	1x PCle x16 (Gen 3) Slot 6x PCle x1 (Gen 3) Slots 2x Full/Half Size Mini PCle Slots (PCle 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, Sc	rew-lock Jack)	

For more specifications and certifications, please check the CPU-162-22 datasheet

0.1007	PRE-INSTALLED SOFTWARE
OS CentOS 7	CentOS 7

		INCLUDED ACCESSORIES	
CARRIER BOARD		CAR-363-13 Micro ATX COM Express Carrier Board	
MEMORY	RAM	2x 4GB DDR4 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 with Fan	

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