



- Ready to Plug
- Intel® Core™ 6th Generation
- Triple Display, 16+8 PCIe Lanes
- Extended Temperature
- 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-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 PCIe x1 slots, one PEG slot, two Mini PCIe 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

## Description

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 6th 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 PCIe 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.

# CPU-162-22 Development Kit

COM Express Compact Type 6 - Intel Core and Celeron

Ordering code: CPU-162-22-XX-DK01

XX		- 02	- 03
<b>PROCESSOR</b>	CPU	Core i5 6442EQ 1.9GHz (2.7GHz), 4 Cores	Core i7 6822EQ 2.0GHz (2.8GHz), 4 Cores
<b>MEMORY</b>	RAM	2x SODIMM Sockets - Up to 32GB DDR4 2133MHz - Dual Channel	
<b>STORAGE</b>	SATA	4x SATA 3.0 (up to 6Gb/s)	
<b>I/O INTERFACES</b>	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), 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 PCIe x16 (Gen 3) Slot – 6x PCIe x1 (Gen 3) Slots – 2x Full/Half Size Mini PCIe Slots (PCIe Signal Only)	
<b>OTHER</b>	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	
<b>POWER</b>	Input	12V (DC-in, Screw-lock Jack)	

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

## Pre-Installed Software

SOFTWARE	OS	CentOS 7

## Included Accessories

<b>BASEBOARD</b>	CARRIER BOARD	CAR-363-13 microATX COM Express Carrier Board
<b>MEMORY</b>	RAM	2x 4GB DDR4 SODIMM Modules
<b>STORAGE</b>	SSD	1x 2.5" 64GB SATA SSD MLC
<b>I/O INTERFACES</b>	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
<b>POWER SUPPLY</b>	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)
<b>OTHER</b>	Heatsink	1x Heatsink with Fan

(\*) LVDS Support requires BIOS customization.