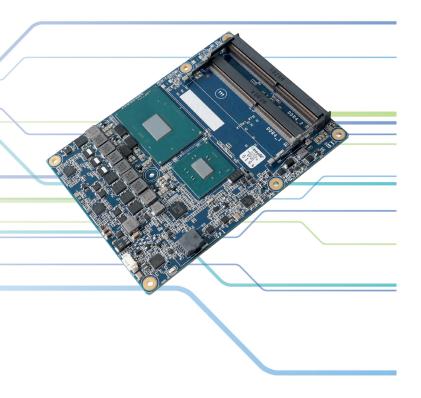
CPU-162-24

COM Express Basic Type 6 - Rugged Intel Xeon E3-1500 v6 with high performance graphics

- Powerful
- High Performance Graphics
- Rugged and Fanless
- Customizable
- Professional Services



FEATURES

Powerful - Supports server-class, power efficient Xeon E3-1500 v6 CPUs

High Performance Graphics - Features Intel HD Graphics, with VGA, LVDS and two HDMI/DP++/DVI displays, and HW accelerated video encoding and decoding

Rugged and Fanless - Operates from - 40 to +85°C, with error correcting code memory and soldered CPU for reliable, fanless design

Customizable - Comes with optional personalization and full customization services, ranging from factory options to deep HW/SW configuration changes

Professional Services - Provides the foundation for Eurotech Professional Services that span from carrier board development to complete system design, certification and manufacturing

The CPU-162-24 is a COM Express Basic (125x95mm) Type 6 module based on the Intel® Xeon® D-1505L v6 and 1505M v6 processors and supports up to 2 DDR4 SO-DIMMs with ECC, for a total capacity of 32GB.

Ideal for high performance graphics applications, the CPU-162-24 features Intel HD graphics, an integrated GPU that provides up to three simultaneous video outputs, with VGA, LVDS and HDMI/DP++/DVI (eDP also available as a factory option). It also features one PCle x16 and one PCle x8 links, to enable discrete GPUs, RAID controllers and other high performance peripheral expansions.

With a long-life cycle, optional conformal coating and a soldered down CPU, the CPU-162-24 is a reliable building block for fanless Edge devices that need to perform consistently in harsh environmental conditions.

Eurotech Professional Services are offered as an option and include BIOS personalization, carrier board design, system development and production. Deep module customization, such as feature changes are also available.

The CPU-162-24 supports Eurotech Everyware Linux and Windows 10 Enterprise; customer carrier board enablement and RTOS are available through Eurotech Professional Services, just like the full integration with Eurotech IoT Edge Framework Everyware Software Framework (ESF), that provides native connectivity with many IoT Cloud services and among them, Everyware Cloud (EC – separately available), Eurotech IoT Integration Platform, which allows remote device and data management and integration with analytics and IT applications.



CPU-162-24

Specifications

COM Express Basic Type 6 -Rugged Intel Xeon E3-1500 v6 with high performance graphics

		Ordering code: CPU-162-24-XX	
2	ΚX	-01	-03
PROCESSOR	СРИ	Xeon E3-1505L v6 2.20GHz (3.00GHz), 4 Cores	Xeon E3-1505M v6 3.00GHz (4.00GHz), 4 Cores
MEMORY	RAM	2x DDR4-ECC SODIMM for up to 32GB, Dual Channel	
BIOS	Size	128Mbit SPI BIOS	
	SATA	4x SATA 3.0 (up to 6Gb/s); Support for RAID 0/1/5/10	
I/O INTERFACES	Ethernet	1x 10/100/1000Mbps	
	USB	4x USB 3.0, 8x USB 2.0	
	Serial	2x UART (TX/RX)	
	Digital I/O	1x 8bit Digital I/O	
	Video Ports	1x VGA (DDI3 Factory Option), 1x LVDS/eDP (eDP Factory Option), 2x DDI (HDMI/DVI/DP++) Triple Display: VGA+LVDS+DDI or VGA+DDI1+DDI2 or eDP + 2x DDI	
	Video Resolution	VGA Resolution: 1920x1200@60Hz, LVDS Resolution: 1920x1200@60Hz, Dual Channel, 24bit HDMI Resolution: 4096x2160@30Hz, 24bpp DVI Resolution: 1920x1200@60Hz DP++/eDP Resolution: 4096x2304@60Hz, 24bpp	
	Video Acceleration	HW Encode: HEVC/H.265, VP8, M/JPEG, MPEG2 HW Decode: HEVC/H.265, H.264, VP8 (8bit), VP9 (10 bit), VC1/WMV9, M/JPEG, MPEG2	
	Audio	High Definition Audio Interface	
	PCI Express	1x PCle x16 or 2x PCle x8 (Gen 3), 8x PCle x1 or 2x PCle x4 or 4x PCle x3 (Gen 3)	
	LPC	Yes	
	I2C	Yes	
	SMBus	Yes	
	RTC	Yes	
OTHER	Watchdog	Yes, Dedicated Chip	
OTTLK	TPM	Factory Option	
	Sensors	Temperature	
POWER	Input	12V, 5VSBY, 3V_ 12V, VCC_RT	
	Consumption	25W (CPU TDP)	35-45W (CPU TDP)
_	Operating Temp	- 40 to +85°C	
ENVIRONMENT	Storage Temp	- 40 to	
	Humidity	5% to 9	90% RH
CERTIFICATIONS	Regulatory	CE, FCC, ISED (§)	
	Environmental	RoHS3, REACH	
	Compliance	· ·	ess R2.1, Type 6
MECHANICAL	Dimensions	125x95mm (LxW) - COM Express Basic	
Designed to Meet			
		SUPPORTED SOFTWARE	
os	Eurotech Everyware Linux, (Professional Services: Windows 10 IoT Enterprise, Other Linux and RTOS)		
IoT Framework	Consumption 25W (CPU TDP) 35-45W (CPU TDP) Operating Temp - 40 to +85°C Storage Temp - 40 to +85°C Humidity 5% to 90% RH Regulatory CE, FCC, ISED (§) Environmental RoHS3, REACH Compliance PICMG COM Express R2.1, Type 6 Dimensions 125x95mm (LxW) - COM Express Basic		

SUPPORTED SOFTWARE		
os	Eurotech Everyware Linux, (Professional Services: Windows 10 IoT Enterprise, Other Linux and RTOS)	 T
IoT Framework	Everyware Software Framework (Java/OSGi)	2

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