

# RELIABLE SECURE CONNECTIVITY

**XPC-640-500**

Industrial Fanless Embedded System



## XPC-640-500 Industrial Fanless Embedded System



### FEATURE HIGHLIGHTS

- LGA1151 socket 7th/6th gen Intel® Core™ i7/i5/i3 or
- Celeron® processor (Kaby Lake/Skylake)
- Supports 4 COM, 6 USB and 2 GbE LAN
- Two 2.5" SATA drive bay
- PCI Express Mini Card slot and SIM slot
- Front I/O connectivity design
- 10 to 30 VDC wide range power input



### Introduction

The XPC-640-500 is powered by the 7th generation Intel® Core™ i7/i5/i3 and Celeron® processor families. It features dual DDR4-2133 DIMM sockets with up to 32GB of system memory, and provides a wide choice of front-accessible I/O interfaces for easy cabling and maintenance.

The XPC-640-500 supports an extended operating temperature ranging from -10°C to +55°C, a wide voltage range DC power input from 10 to 30 VDC with power protection, and up to 2G vibration endurance, enabling a reliable and stable operation in harsh environment.

The superior Intel® Kaby Lake-based fanless embedded box PC can support three independent high resolution displays and 4K resolution, offering high quality imaging.



Specifications	
CPU	7th/6th Gen Intel® Core™ i7/i5/i3 & Celeron® processor (CPU TDP max. up to 35W)
Chipset	Intel® H110
System Memory	2 x 288-pin DDR4-2133 DIMM, up to 32GB
BIOS	AMI
COM	1 x RS-232/422/485 3x RS-232
USB	2 x USB 2.0 4 x USB 3.0
Ethernet/PoE	2 x 10/100/1000 Mbps (Intel® i219-LM & i211-AT)
Display	1 x DisplayPort 1 x HDMI 1 x VGA
Digital I/O	N/A
Audio	1 x Audio (Mic-in/Line-out)
Storage	2 x 2.5" SATA HDD drive bay (max. up to 15 mm height) 1 x mSATA (enabled in BIOS setting)
Expansion	1x Full-size PCI Express Mini Card slot with mSATA supported (PCI Express + USB signal) 1 x SIM slot
Others	1 x Phoenix type VDC power input connector 1 x AT/ATX quick switch 2 x SMA-type antenna connector 1 x ATX power switch
Power	10 to 30 VDC
Watchdog Timer	255 levels, 1 to 255 sec.
Construction	Aluminum extrusion and heavy-duty steel, IP40
Operating Temperature	-10°C to +55°C (+14°F to +131°F) (with W.T. DRAM/SSD for Skylake) °10-C to +50°C (+14°F to +122°F) (with W.T. DRAM/SSD for Kaby Lake)
Relative Humidity	10% - 90%, non-condensing
Vibration	2Grms with SSD (5 to 500 Hz, X, Y, Z directions)
Shock	N/A
Certifications	CE
EOS Support	Win10 IoT, WE8S, Linux
Mounting	Wall mount DIN-rail



**ORDER INFORMATION**

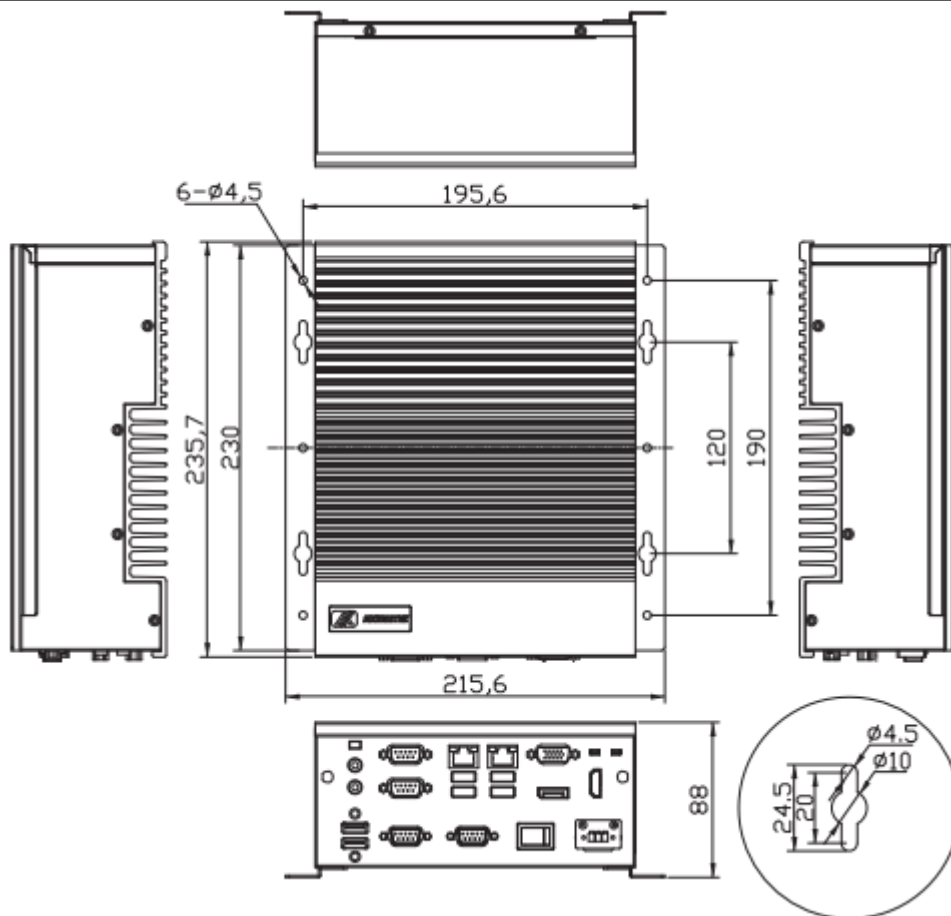
**Standard**

XPC-640-500-FL	Fanless embedded system with LGA1151 7th/6th gen Intel® Core™ i7/i5/i3 & Celeron® processor, Intel® H110, HDMI, DisplayPort, VGA, 4 USB 3.0, 4 COM, PCI Express Mini Card slot and 10 to 30 VDC
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**Optional**

2.5" SATA HDD	64GB or above
2.5" SATA SSD	100GB or above
DDR4 RAM	2GB to 16GB
mSATA	64MB or above
XWK6400	Wall mount kit
XDK6401	DIN-rail kit
	3G/LTE module
XPA2400-120-24	24V 120W power adapter Power cord

**Optional**





## WHO WE ARE

Built on 20 years of experience in designing and manufacturing industrial networking products, **Agatel** was established from the UK to serve the infrastructure and industrial sectors in EMEA markets with reliable connectivity for mission-critical systems in demanding environments.

Experienced in hardware and software design and integration, we produce high-quality yet cost-effective industrial networking and communication products with great customization capabilities and robust implementations, equipping our customers for reliable secure industrial networks.



## WHAT WE OFFER

The needs of our customers' industry are different from those of corporate IT environments – industrial operating environments are tough and the impact of failure in the field can lead to business threatening situations, hence our products will have lifetimes in excess of 20 years.

From entry-level to high-performance industry-certified hardware, **Agatel** offers a full solution spectrum to suit our customers' budgets and application requirements, with features such as industrial-grade reliability, integrated security, network redundancy, and advanced performance.

Our product solution profile includes industrial Ethernet switches, network time servers, media converters, industrial wireless devices, and serial device servers, covering a wide array of mission-critical applications such as automation, security, transport, water, oil and gas, and power grids.



## WHY CHOOSE US

We help our customers reduce downtime and operational costs of their industrial applications in harsh environments. Leading system integrators in EMEA rely on our niche technical expertise and product quality to increase their applications' robustness, revenues, and competitive differentiation.

**Agatel** ruggedized high-quality solutions are designed to deliver zero-network-downtime for harsh project demands, allowing for reliable connectivity to keep people and assets safe and secure in harsh and hazardous environments, and allowing customers to focus on growing their business.

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