

High-Grade Industrial Computer EWS-KH10A(xx)KF03NSxx



Front view



Rear view

Model (xx):Selectable OS		EWS-KH10A(xx)KF03NS01	EWS-KH10A(xx)KF03NS21
OS		Windows 10 IoT Enterprise 2016 LTSB (64 bit), Japanese (default), English or Chinese Interface Linux System 8 (64bit), Japanese (default), English or Chinese	
CPU	Processor	Intel Xeon Processor E3-1275 v6 3.8 GHz	
	Core	4	
	Thread	8	
	CPU Fan	No	
Chipset		Intel C236	
Main Memory		ECC 16GB (DDR4-2400)	
BIOS/Loader		Phoenix SecureCore Technology	
Calendar Clock Backup Battery		Precision: Within 1 min. month difference (Store at +25 degrees C) BR-1/2AA (Panasonic Corporation)	
Storage	Boot Device	SATA HDD 1 TB	CFast 32 GB (MLC)
	Auxiliary Device 1	Data drive: SATA HDD 1 TB	
	Auxiliary Device 2	Data drive: SATA HDD 1 TB	
	Auxiliary Device 3	Data drive: CFast slot (CFast card sold separately)	Data drive: SATA HDD 1 TB
Graphics	Controller	Built in the processor	
	Video memory	Shared with the main memory	
	Resolutions	- DisplayPort: 4096 × 2304, 3840 × 2160, 2560 × 1600, 2048 × 1536, 2048 × 1152, 1920 × 1440, 1920 × 1080, 1600 × 1200, 1600 × 900, 1400 × 1050, 1280 × 1024, 1280 × 960, 1280 × 768, 1280 × 720, 1152 × 864, 1024 × 768, 800 × 600, 640 × 480 - DVI-D: 1920 × 1200, 1920 × 1080, 1600 × 1200, 1600 × 900, 1400 × 1050, 1280 × 1024, 1280 × 960, 1280 × 768, 1280 × 720, 1152 × 864, 1024 × 768, 800 × 600, 640 × 480 * Maximum resolutions may vary depending on OS and monitor's resolutions.	
Interface	Display	2 ports DisplayPort v1.2 × 1 port DVI-D × 1 port	
	Audio	Realtek ALC898 Line output x 1 port (stereo Φ3.5 mini jack) (Impedance: 75Ω) Microphone input x 1 port (stereo Φ3.5 mini jack) (Impedance: 16kΩ or more)	
	LAN	4 ports (RJ-45 connector) 1000BASE-T/100BASE-TX/10BASE-T, Wake On LAN, Jumbo-Frame, Teaming supported LAN1: WGI219LM (Intel Corporation) × 1 port LAN2: WGI210IT (Intel Corporation) × 1 port LAN3: WGI210LM (Intel Corporation) × 1 port LAN4: WGI210IT (Intel Corporation) × 1 port	
	USB	5 ports USB Rev.3.0/2.0 Standard-A connector × 4 ports USB Rev.2.0 Series A connector × 1 port *The maximum power supply current is 1 A per port. The total consumption current of all the devices must be less than or equal to 1 A.	
	RS-232C	1 port (No-isolation) Connector: 9-pin D-sub connector Transfer Rate: 115.2 kbps (max.)	
Switch		Main power switch x 1 Power switch x 2	
LED		Power indicator LED x 1, Disk access LED x 1, HDD status LED x 9 (Alarm LED x 3, Hot Swap LED x 3, Access LED x 3) LED (Indicator / Notification) x 10	
RAS	Hardware Monitoring	CPU temperature / Board temperature / Memory temperature / Chassis FAN / AMT function / Vibration and shock	
	Watchdog Timer	Software programmable (1 s to 255 s) *Time-up notification is software selectable reset or interruption	
	External Input/output	1 port (4 pin double row connector, DF11-4DS-2C) Power on/off x 1, RAS output x 1	
Chassis Cooling FAN		Yes (52 dB)	



Power Supply	Input power	World wide input voltage: 100 Vac to 240 Vac (50 Hz/60 Hz) The AC cable that comes with this product is for 100 Vac.
	Power Supply Voltage Range	85 Vac to 264 Vac
	Power Consumption	T.B.D
Expansion slot	Expansion Slot	PCI Express Gen3 x16 lane x 1 PCI Express Gen2 x8 lane (x4 lane operation) x 1 PCI Express Gen2 x1 lane x 1 Power supply: 150 W (max.)
	Bus Requirement	PCI Express Base Specification. Revision 3.0 x16 lane PCI Express Base Specification. Revision 2.0 x8 lane (x4 lane operation) PCI Express Base Specification. Revision 2.0 x1 lane
	Board Dimensions	312 (D) x 113 (H) [mm]
Operating Temperature/Humidity		Temperature: +5 degrees C to +50 degrees C Humidity: 10 % to 90 % (non-condensing)
Noise Immunity		Electrostatic discharge immunity contact: +/-4 kV, air: +/-8 kV Radiated radio frequency electromagnetic field immunity 10 V/m Conducted disturbance immunity 10 V Electrical fast transient burst immunity Signal line: 1 kV, power line: 2 kV
Vibration Resistance		Up to 1 G * Up to 0.2 G when HDD installed
Shock Resistance		Up to 15 G * Non-operated
Dimensions		430 (W) x 354 (D) x 133 (H) [mm]
Life-limited Parts	Calendar clock backup battery	Expected lifetime: 10 years * Non-energized for 24 hours a day
	FAN	Expected lifetime: 5 years * Operated for 24 hours a day at ambient temperature +25 degrees C
	HDD	Expected lifetime: 4 years * Operated for 8 hours a day at ambient temperature +25 degrees C



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All product specifications are subject to change without prior notice.

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