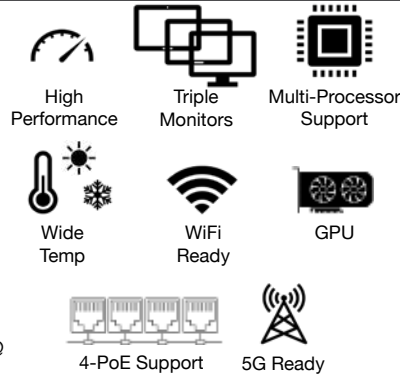


# INDUSTRIAL EMBEDDED COMPUTER IEC-601 SERIES



Industrial Embedded Computer with Intel® 12th, 13th, & 14th Generation i3 ~ i9 Core Processor via socket 1700, R680E Chipset, Supports: 3- 2.5GbE LAN, 6- USB 3.2 Gen2, 2- DisplayPorts, 1- HDMI, 2- RS232/422/485, 2- 2.5" Removable SSD SATA 3.0, 1- 2.5" Internal SATA 3.0 SSD, Onboard TPM2.0, 1- M.2 M Key, 1- PCI Express x16 Gen4, 1- PCI Express x16 Gen3, Integrated: 12-48 VDC @ 500W or 800W Power Supply



## FEATURES

- Intel® 12th, 13th, & 14th Generation 4- Core & 24- Core processors 4.30GHz~5.80GHz Max
- Up to 64GB DDR4 3200MHz UDIMM
- 2• 2.5" Removable SATA 3.0 ports (RAID 0/1/5 Support)
- 1• 2.5" Internal SATA 3.0 ports (RAID 0/1/5)
- 6• USB 3.2 Gen2 ports, 2• RS232/422/485
- 1• HDMI, 2• DisplayPorts
- 1• PCI Express x 16 Gen4, 1• PCI Express x 16 Gen3, 1• M.2 M Key, 1• M.2 B Key, 1• M.2 E Key
- Support Multiple NVIDIA® GPU versions
- 1• 4- Port 2.5GbE Isolated PoE Module
- 1• 5G Module
- Industrial IP40 Rated Design
- Wide range operating temperature supported
- Integrated: 12-48 VDC @ 500W or 800W Power Supply

## SYSTEM SPECIFICATIONS

Processor	Intel® 12th Gen Alder Lake i3-12100 4.30 GHz Max Intel® 12th Gen Alder Lake i5-12500 4.60 GHz Max Intel® 12th Gen Alder Lake i7-12700 4.90 GHz Max Intel® 12th Gen Alder Lake i9-12900 5.10 GHz Max Intel® 13th Gen Raptor Lake i3-13100 4.50 GHz Max Intel® 13th Gen Raptor Lake i5-13500 4.80 GHz Max Intel® 13th Gen Raptor Lake i7-13700 5.20 GHz Max Intel® 13th Gen Raptor Lake i9-13900 5.60 GHz Max Intel® 14th Gen Raptor Lake i3-14100 4.70 GHz Max Intel® 14th Gen Raptor Lake i5-14500 5.00 GHz Max Intel® 14th Gen Raptor Lake i7-14700 5.40 GHz Max Intel® 14th Gen Raptor Lake i9-14900 5.80 GHz Max
Processor Generation	Raptor Lake-S™ Refresh/Alder Lake-S™
Processor Cores	4 • i3-12100, i3-13100, i3-14100 6 • i5-12500 12 • i7-12700 14 • i5-13500, i5-14500 16 • i9-12900, i7-13700 20 • i7-14700 24 • i9-13900, i9-14900
Memory	Up to 64GB DDR4 3200MHz SODIMM
Storage	1 • M.2 SSD 2 • 2.5" Removable 3.0 SATA drive bays 1 • 2.5" SATA 3.0 SSD internal drive bays
Chipset	R680E
Graphics	Intel® UHD Graphics 730 & 770
LAN Controller	3 • Intel® I226-LM 2.5GbE LAN port
TPM	Infineon® SLB9670VQ20
System I/O	Front 1 • Power Button 2 • 2.5" Removable 3.0 SATA drive bays 2 • RS232/422/485 ports 2 • DisplayPort 1 • HDMI 6 • USB 3.2 Gen2 ports 3 • 2.5GbE LAN Ports 1 • Line-out 1 • Mic 2 • WiFi RP-SMA connectors 1 • Power Connector 2 • PCI Express slots (1 • optional)
BIOS	AMI
Watchdog Timer	256 levels, 1~255 sec.
Expansion Interface	1 • PCIe x 16 Gen4 1 • PCIe x 16 Gen3 (Optional) 1 • M.2 M Key, 1 • M.2 B Key, 1 • M.2 E Key
System Indicator	1 • blue LED for system power-on 1 • amber LED for SSD active



## MECHANICAL SPECIFICATIONS

Color	Blue & Silver
Construction	Industrial grade heavy steel
Dimensions (W x H x D)	251.5mm x 168mm x 285mm (9.90" x 6.06" x 11.2")
Mounting	Wall mount bracket (optional)

## POWER SUPPLY

Power Supply	Integrated: 12-48 VDC @ 500W, 800W Power Supply
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## REGULATORY SPECIFICATIONS

Operating Temperature	-0°C ~ 60°C (32°F ~ 140°F)
EMI/EMC	CE standards applied (EN 55022 / EN 55024 / EN 55032) FCC 47 CFR Part 15 Subpart B
	RoHS
	UL Pending Certification
Vibration	Operating: 1G 5-500Hz, 3 Axes according to IEC60068-2-64

# INDUSTRIAL EMBEDDED COMPUTER IEC-601 SERIES



## ORDERING INFORMATION

Base	IEC-601 Industrial Embedded Computer, Supports 12th/13th/14th Generation Processors, Intel R680E Chipset, 2- 2.5" Removable SATA 3.0 Drives, 1- Power button, 6- USB 3.2 Gen2 Ports, 3- Intel i226-LM 2.5GbE LAN Ports, 1- HDMI Ports, 2- DP Port, 1- Audio Jack: (Line-Out) (Mic-In), 2- PCIe x16, 2- M.2 M Keys, 1- M.2 E Key, 1- M.2 B Key, 1- Internal 2.5" SATA 3.0 Drive
IEC-601_-	

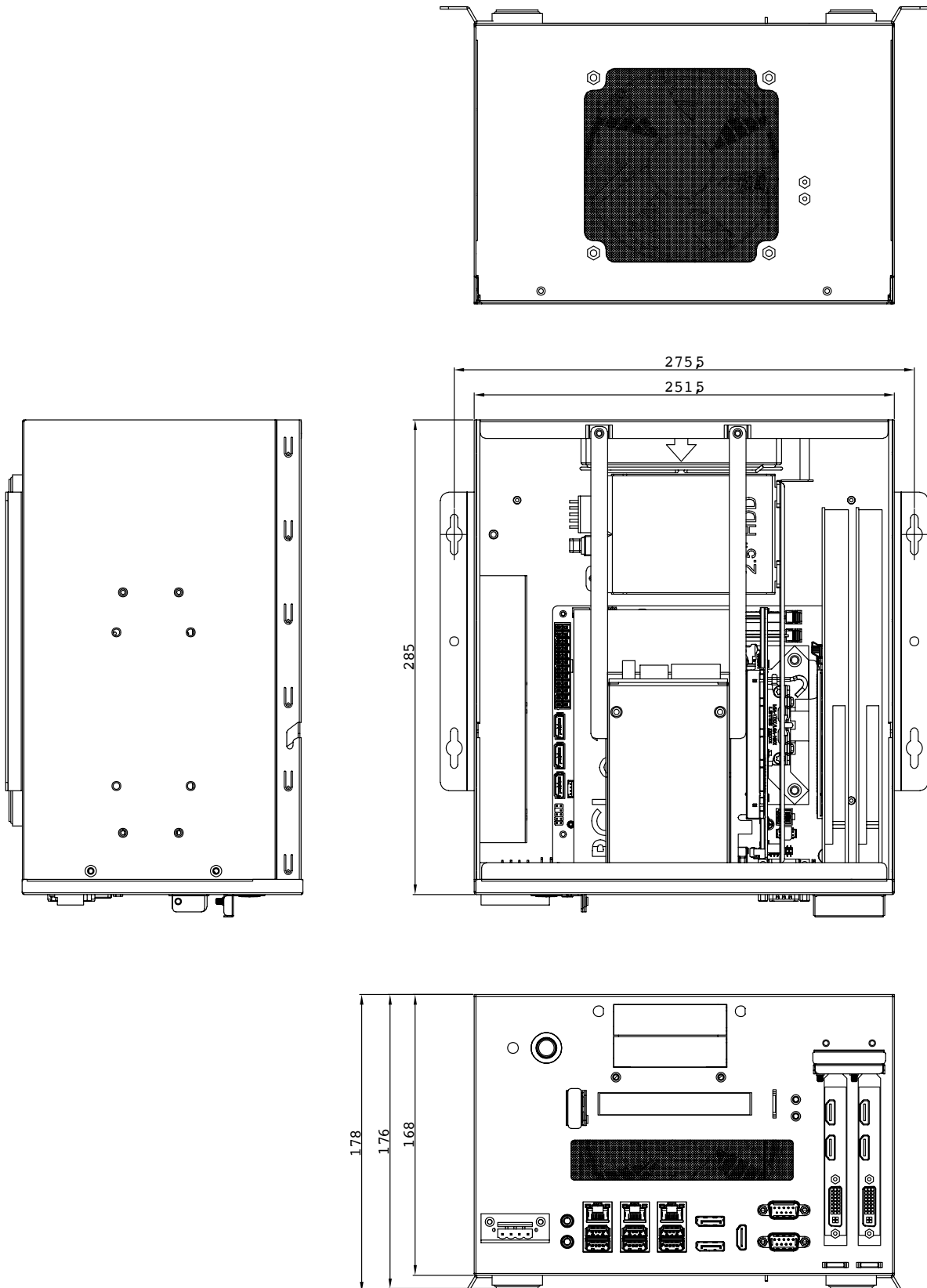
## WARRANTY

Manufacturer Warranty	2 Year Warranty
Extended Warranty	TotalCare Protection 3 or 5 Year Extended
Expected Life Cycle	5 Years

## CONFIGURABLE & ACCESSORIES

Processor	Intel® i3-12100 4.30GHz Max, Intel® i5-12500 4.60GHz Max, Intel® i7-12700 4.90GHz Max, Intel® i9-12900 5.10GHz Max
	Intel® i3-13100 4.50GHz Max, Intel® i5-13500 4.80GHz Max, Intel® i7-13700 5.20GHz Max, Intel® i9-13900 5.60GHz Max
	Intel® i3-14100 4.70GHz Max, Intel® i5-14500 5.00GHz Max, Intel® i7-14700 5.40GHz Max, Intel® i9-14900 5.80GHz Max
Power Supply	12-48 VDC @ 500W or 800W AC Power Supply
RS232/422/485	2• RS232/422/485, 5• RS232/422/485
1 • M.2 M Key SSD	250GB, 500GB, 1TB, 2TB, 4TB
2 • 2.5" Removable SATA 3.0 SSD	250GB, 500GB, 1TB, 2TB, 4TB
1 • 2.5" Internal SATA 3.0 SSD	250GB, 500GB, 1TB, 2TB, 4TB
DDR4 UDIMM	16GB, 32GB, 64GB
WiFi module	Intel® 9260 802.11ac/a/b/g/n Wi-Fi / Bluetooth 5.1 M.2 Module Intel® AX210 Wi-Fi / 802.11ax/ac Wi-Fi / Bluetooth 5.2 M.2 Module
PCI Express x16	Support Multiple NVIDIA® GPU versions
PCI Express x16	4- Port 2.5GbE PoE Module (Verizon®) 5G Embedded Quectel RM520N-GL, Includes: 4- 5G Antennas (AT&T®, T-Mobile®) 5G Embedded Quectel® RM520N-GL, Includes: 4- 5G Antennas
Wall mount bracket kit	6640229021 with Vibration Isolators
Operating System	Windows® 10 IoT Enterprise 2021 LTSB Value (i3/i5), Windows® 10 IoT Enterprise 2021 LTSB High End (i7/i9), Windows® 10 Professional 64bit, Windows® 11 IoT Enterprise 2024 Value (i3/i5), Windows® 11 IoT Enterprise 2024 High End (i7/i9), Windows® 11 Professional 64bit, Ubuntu® Desktop 24.04 LTS 64bit

## DIMENSIONS



Measurements shown in mm. All dimensions are  $\pm 0.5\text{mm}$