INDUSTRIAL EMBEDDED COMPUTER
IEC-710 SERIES

comtronix

Industrial Embedded Computer with Intel® 12th, 13th, & 14th Generation i3 ~ i9 Core Processor via socket 1700, R680E Chipset, Supports: 2- DisplayPorts, 2- HDMI, 3- 2.5GbE LAN, 6- USB 3.2 Gen2, 2- RS232/422/485, 1- DIO, Onboard TPM2.0, 1- PCI Express x16 Gen5, 4- 2.5GbE PoE, 5G Cellular, WiFi Ready, Wide Voltage 8~48VDC

High Performance   5G Ready

Multi-Processor Support | Quad Monitor | WiFi Ready | Wide Temp | Fanless | Wide Range Voltage

FEATURES

- Intel® 12th / 13th / 14th Generation 4- Core & 24- Core processors 4.10GHz~5.30GHz Max
- High performance 262-pin DDR5 5200 SO-DIMM
- max. up to 64GB
- 3• 2.5GbE Ethernet Ports
- 2• RS232/422/485, 1• DIO
- 6• 3.2 USB Gen2 ports
- M.2 SSD up to 4TB (RAID 5 Support)
- 1• PCI Express x16 Gen5, 1• M.2 M Key, 1• M.2 B Key, 1• M.2 E Key
- 2• HDMI port, 2• DisplayPort
- Onboard TPM2.0 (Infineon SLB9672)
- Wide range voltage 8~48VDC
- Highly reliable thermal transfer fanless technology

SYSTEM SPECIFICATIONS

Processor		Intel® 12th Gen Alder Lake i3-12100T 4.10 GHz Max
		Intel® 12th Gen Alder Lake i5-12500T 4.40 GHz Max
		Intel® 12th Gen Alder Lake i7-12700T 4.70 GHz Max
		Intel® 12th Gen Alder Lake i9-12900T 4.90 GHz Max
		Intel® 13th Gen Raptor Lake i3-13100T 4.20 GHz Max
		Intel® 13th Gen Raptor Lake i5-13500T 4.60 GHz Max
		Intel® 13th Gen Raptor Lake i7-13700T 4.90 GHz Max
		Intel® 13th Gen Raptor Lake i9-13900T 5.30 GHz Max
Processor Generation		Raptor Lake-S™ Refresh/Alder Lake-S™
Processor Cores		4 • i3-12100T, i3-13100T
		6 • i5-12500T
		12 • i7-12700T
		14 • i5-13500T
		16 • i9-12900T, i7-13700T
		24 • i9-13900T
Memory		Up to 64GB DDR5 SO-DIMM
Storage		1 • M.2 SSD up to 4TB
Chipset		R680E
Graphics		Intel® UHD Graphics 730 & 770
LAN Controller		3 • Intel® I226-LM 2.5GbE LAN
TPM		Infineon® SLB9672
System I/O	Front	2 • RS232/422/485 ports
		1 • DB37 I/O Connector
		1 • Power Button
		2 • WiFi RP-SMA connectors
		4 • 5G RP-SMA connectors
	Rear	6 • USB 3.2 Gen2 ports
		3 • 2.5GbE LAN Ports
		2 • HDMI port
		2 • DisplayPort
		1 • 3- Pin Terminal Block Power connector
		1 • Mic-in
		1 • Line-out
		1 • PCIe x16 Gen5
BIOS		AMI UEFI
Watchdog Timer		256 levels, 1~255 sec.
Expansion Interface		1 • M.2 B Key
		1 • M.2 E Key
		1 • M.2 M Key
		1 • PCIe x16 Gen5
System Indicator		1 • blue LED for system power-on (shared)
		1 • red LED for SSD active (shared)

MECHANICAL SPECIFICATIONS

Color	Silver-Blue
Construction	Aluminum extrusion and heavy gauge chassis
Dimensions (W x H x D)	188.8mm x 108mm x 188.8mm (7.43" x 4.25" x 7.43")
Mounting	DIN rail mount / VESA mount / Wall mount

POWER SUPPLY

Power Input	8 ~ 48VDC with protection fuse
Power Adapter	110 ~ 240 AC to 24VDC out 240W *Based on Configuration

REGULATORY SPECIFICATIONS

Operating Temperature	-10°C ~ 60°C (14°F ~ 140°F)
EMI/EMC	CE standards applied (EN 55022 / EN 55024 / EN 55032 / EN 60950-1) FCC 47 CFR Part 15 Subpart B RoHS
Vibration	5~500Hz 1G PTP
Shock	operating: 30G (11ms), non-operating: 40G (11ms)

ORDERING INFORMATION

Base	
IEC-710_-	IEC-710 Industrial Embedded Computer - Fanless, Supports 12th / 13th / 14th Generation, Intel R680E Chipset, 1- Power button (Front), 6- USB 3.2 Ports Gen2, 3- Intel I226-LM 2.5GbE LAN Ports, 2- DP Ports, 2- HDMI, 1- Audio Jack: (Line-Out) (Mic-In), 1- PCIe x16 Gen5, 1- M.2 M Key, 1-M.2 E Key, 1- M.2 B Key, TPM2.0, 3-Pin Terminal Block Connector with Mate, (Does not include AC Wall Adapter)

WARRANTY

Standard Warranty	2 Year Warranty
Extended Warranty	TotalCare Protection 3 or 5 Year Extended
Expected Life Cycle	7 Years

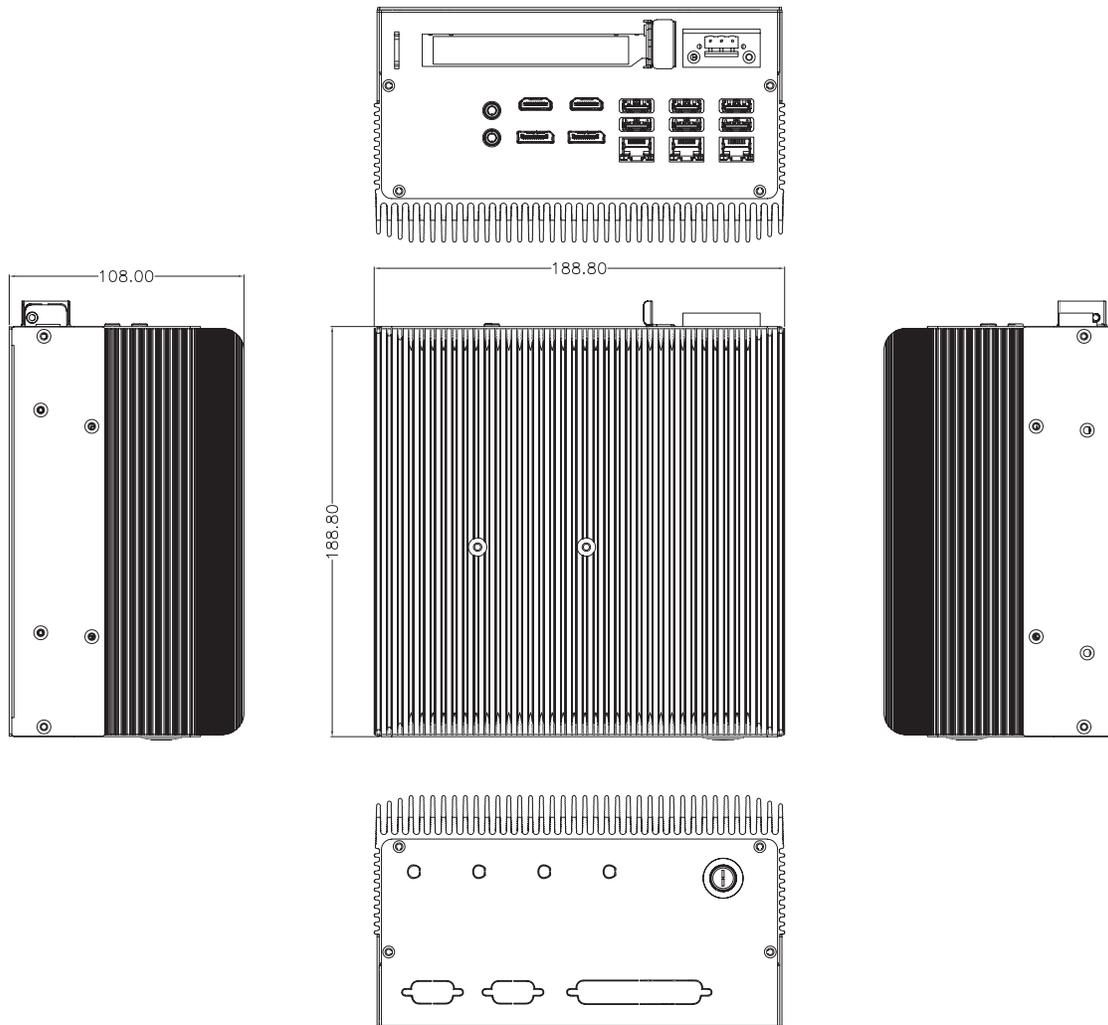5271 Mineral Springs Rd • Young Harris, GA 30582
info@comtronixus.com • Toll Free: 877.224.5534

CONFIGURABLE & ACCESSORIES

Processor	Intel® i3-12100T 4.10GHz Max, Intel® i5-12500T 4.40GHz Max, Intel® i7-12700T 4.70GHz Max, Intel® i9-12900T 4.90GHz Max, Intel® i3-13100T 4.20GHz Max, Intel® i5-13500T 4.60GHz Max, Intel® i7-13700T 4.90GHz Max, Intel® i9-13900T 5.30GHz Max	PCI Express x16 (Gen5)	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
Power Connector	3-Pin Terminal Block Connector with Mate, Locking Circular Barrel Power Connector, Vehicle Ignition Sensor Power Supply, 6~30VDC (No PCI Express Card Option)	DDR5 SO-DIMM	8GB, 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
RS232/422/485	2• RS232/422/485	DIN rail kit	DIN1-KIT
M.2 M Key SSD	250GB, 500GB, 1TB, 2TB, 4TB SSD	Wall mount kit	6620080721
Analog/Digital IO	Analog & Digital I/O Module (requires M.2 B Key SSD)	AC wall adapter	3791030251 - AC Wall Adapter with Locking Barrel Connector 3791070251 - AC Wall Adapter 3-Pin Terminal Mating Connecto
CAN FD	2- DB9 Isolated CAN FD ISO 11898-2:2016 compliant (requires M.2 B Key SSD)	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 22.04 LTS 64bit
5G	(Verizon®) 5G Embedded Quectel RM520N-GL, Includes: 4- 5G Antennas (AT&T®, T-Mobile®) 5G Embedded Quectel® RM520N-GL, Includes: 4- 5G Antennas		
M.2 B Key	256GB, 1TB, 2TB SSD		

DIMENSIONS

Measurements shown in mm. All dimensions are ± 0.5mm