INDUSTRIAL EMBEDDED COMPUTER
IEC-100 SERIES

comtronix

Fanless Embedded Computer with Intel® 4- Core™ 12th Generation Processor, N97 3.60GHz Processor Max, Supports: 1- HDMI, 1- 2.5GbE LAN, 1- 1GbE LAN, 2- USB 3.2, 2- USB 3.0, 1- COM, 1- DIO, WiFi Ready, 12VDC, Onboard TPM2.0

Low Power	Dual Monitor	WiFi Ready	Wide Temp	Fanless

FEATURES

- Intel® 12th Generation 4- Core 3.60GHz Max
- High performance 16GB DDR5 4800 Memory
- 1• 2.5GbE Ethernet Port, 1• 1GbE Ethernet Port
- 1• RS232/422/485, 1• RS232, 1• DIO
- 1• 3.2 USB Gen2 port, 1• 3.2 USB Gen1 port, and 2• 2.0 USB ports
- 1• M.2 SSD up to 4TB
- 1• HDMI
- Onboard TPM2.0 (Infineon SLB9672)
- Voltage 12VDC
- Highly reliable thermal transfer fanless technology

SYSTEM SPECIFICATIONS

Processor		Intel® N97 3.60GHz Max
Processor Generation		Alder Lake-N™
Processor Cores		4
Memory		16GB DDR5 On-Board
Storage		1 • M.2 SSD up to 4TB
Chipset		SoC integrated
Graphics		Intel® HD Graphics
LAN Controller		1 • Realtek® RTL8125BG-CG 2.5GbE LAN port
		1 • Realtek® RTL8111K-CG 1GbE LAN port
System I/O	Front	2 • USB 2.0 ports
		1 • DIO
		1 • Power Button
		3 • RS232/422/485 ports
		2 • WiFi RP-SMA connectors
	Rear	2 • USB 3.2 ports (top Gen1, bottom Gen2)
		1 • 2.5GbE LAN Port
		1 • 1GbE LAN Port
		1 • HDMI port
		1 • 3- Pin Terminal Block Power connector
BIOS		AMI UEFI
Watchdog Timer		256 levels, 1~255 sec.
Expansion Interface		1 • M.2 E Key
		1 • M.2 B Key
System Indicator		1 • blue LED for system power-on

MECHANICAL SPECIFICATIONS

Color	Silver-Blue
Construction	Aluminum extrusion and heavy gauge chassis
Dimensions (W x H x D)	135mm x 44mm x 109.8mm (5.31" x 1.73" x 4.32")
Mounting	DIN rail mount / VESA mount / Wall mount

POWER SUPPLY

Power Input	12VDC with protection fuse
Power Adapter	110 ~ 240 AC to 12VDC out 60W

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

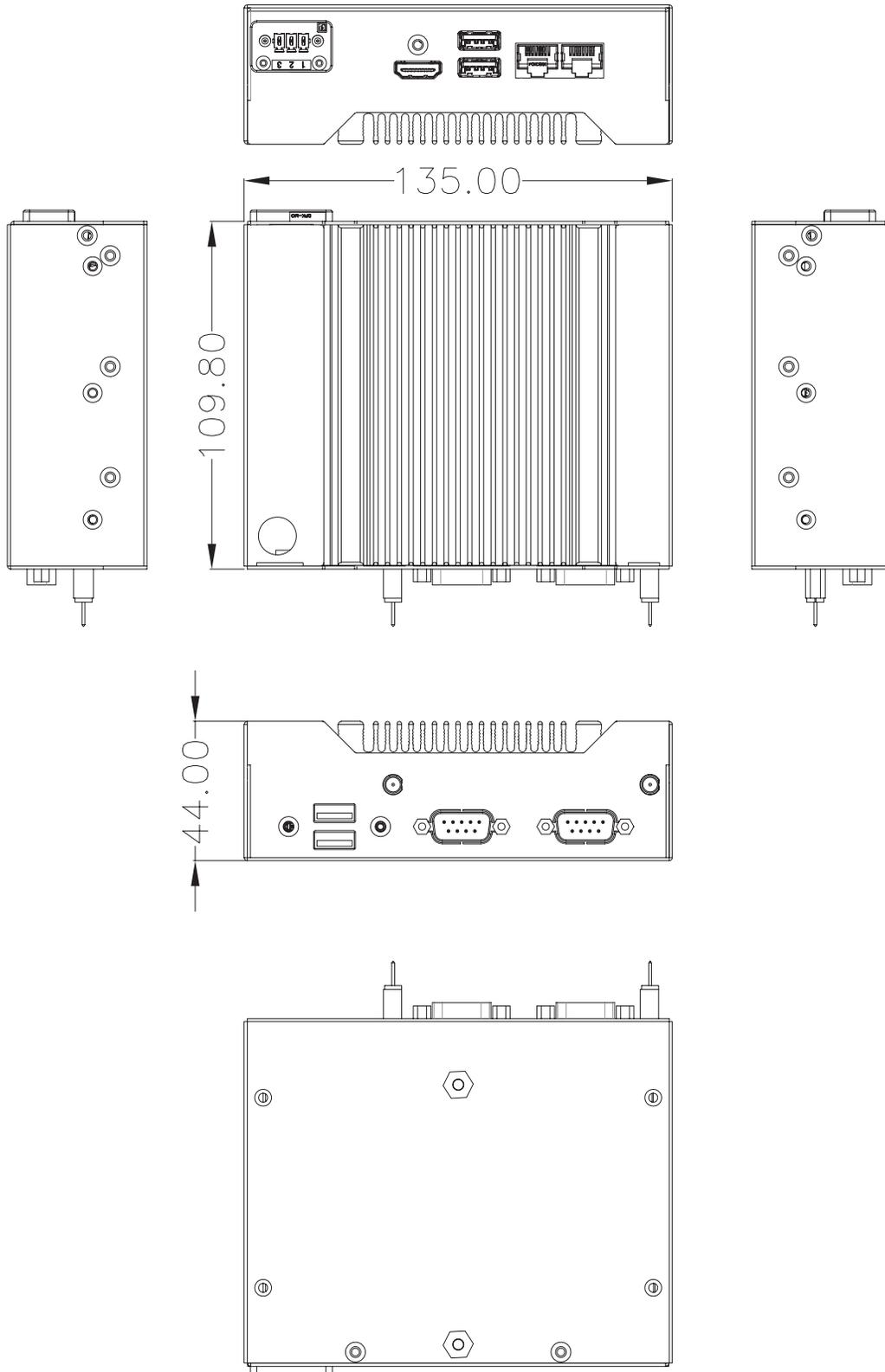| Base	
IEC-100_-	IEC-100 Industrial Embedded Computer, Intel 12th Generation N97 3.6GHz Max 4-Core Processor, 1- USB 3.2 Port Gen2, 1- USB 3.2 Port Gen1, 2-USB 2.0 Ports, 1- RTL8125BG-CG 2.5GbE LAN port, 1- RTL8111K-CG 1GbE LAN port, 1- HDMI Port, TPM2.0, 3-Pin Terminal Block with Mate. (Does not include AC Wall Adapter)

CONFIGURABLE & ACCESSORIES

RS232/422/485/ DIO	1- RS232/422/485 Port, 1- DIO on Front Panel
M.2 B Key	256GB, 512GB, 1TB, 2TB, 4TB
DDR5 SO-DIMM	16GB On-Board
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
DIN rail kit	DIN2-KIT
Wall mount kit	6640227921
VESA mount kit	6640228021
AC wall adapter	3771030761
Operating System	Windows® 10 IoT Enterprise 2021 LTSB Entry, Windows® 10 Professional 64bit, Windows® 11 IoT Enterprise 2024 Entry, Windows® 11 Professional 64bit, Ubuntu® Desktop 22.04 LTS 64bit

WARRANTY

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

DIMENSIONS

135.00

109.80

44.00

Measurements shown in mm. All dimensions are ± 0.5mm