ReliaCOR 40-12

Fanless Edge IPC for Industrial Applications -

- **Compact and Fanless**
- **Industrial Grade**
- **Up to 12th Gen Intel Core i7**
- **Configuration Service**

Features

Compact and Fanless : Offering great reliability thanks to no moving parts; no ventilation grids to prevent dust accumulation inside the unit

Designed for Industrial Environments : Meets the most demanding requirements of Industrial environments: select components and rigorous testing to ensure reliable operation; DC, industrial grade power supply for seamless deployment.

Capable CPU : With an Intel Core 12th Gen CPU, it supports a large variety of workloads, including general purpose computing, data logging, HMI.

Large Storage : One internal bay and a removable bay for 2.5" SATA drives supporting a wide range of storage capacity to support applications such as Edge Databases, NVR, data logging

Simple to Deploy : Extremely compact to fit easily in dense installations; with wall mount and custom mounting options to simplify the deployment.

Configuration Service : Highly modular design, allows for personalized configurations, ranging from personalization (branding, color) to deeper customization, to match complex project requirements

Description

The ReliaCOR 40-12 is a compact, fanless platform that supports a wide range of workloads at the Edge.

Designed for industrial use cases, it offers reliable operation thanks to industrial grade ruggedization and a robust power supply. Very compact and power efficient, the ReliaCOR 40-12 can be deployed in dense installations; an optional mounting accessory further increases its versatility. Completely fanless and without ventilation grids, it offers great resilience and reliability even under extreme load.

The ReliaCOR 40-12 features a top-of-line 12th Gen Intel Core i7 CPU, to deliver power efficient computational crunch, with plenty of RAM thanks to a dual SO-DIMM. It offers a very complete set of interfaces, including dual 2.5Gbps Ethernet with TSN support, eight USB3.2 ports (10Gbps each, great for camera input) and two serial ports; thanks to dual universal bays, additional interfaces and devices can be added (such as 4G/5G cellular modules, 2x 10GbE ports, 4x GbE on RJ45 or M12, with optional PoE, more USB ports). The ReliaCOR 40-12 is also rich in Fieldbus interfaces, with optional CAN, RS-232/422/485 and isolated Digital I/O.

Eurotech configuration management service offers a simple and fast way to fine tune the ReliaCOR 40-12 to your project requirements; examples of personalized configurations include custom branding (with logo and custom colors) and can go to deep customization with a range of options such as frame grabbers, choice of internal components, etc.: call us for more information on how to take advantage of the ReliaCOR 40-12 flexibility.

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Ordering Code: RECOR-40-12-XX				
XX		-01	-02	-03
PROCESSOR	CPU	Intel Core™ i3-12100TE	Intel Core™ i5-12500TE	Intel Core™ i7-12700TE
	Cores/ Threads	4 Cores / 8 Threads	6 Cores / 12 Threads	8 P-cores / 4 E-cores / 20 Threads
	Frequency	2.10GHz / 4.00GHz	1.90GHz / 4.30GHz	1.00GHz / 3.40GHz (E-cores); 1.40GHz / 4.60 GHz (P-Cores)
	TDP CPU	35W		
MEMORY	RAM	8GB DDR5	16GB DDR5	32GB DDR5
STORAGE	OS Disk	500GB		
	Data Disks	1x Removable 240GB MLC (2.5" SATA) RAW	1x Removable 960GB MLC (2.5" SATA) RAW	1x Removable 1.92TB TLC (2.5" SATA) RAW
I/O INTERFACES	Ethernet	2x 2.5GbE (RJ45) – with TSN		
	USB	8x USB 3.2 Gen 2 (Type A, 10Gbps)		
	Serial	2x RS-232/422/485 (DB9)		
	FieldBus	CAN / CAN-FD, FlexRay, LIN, others (Factory Option)		
	Digital I/O	8x Digital IN / 8x Digital OUT (isolated)		
	Video Output	1x DisplayPort; 1x DVI-I		
CYBERSECURITY (HARDWARE)	TPM	TPM 2.0 Support		
EXPANSIONS	Internal Expansion	1x M.2 2230 Key E (PCIe x1, USB 2.0, CNVi), 1x mSATA/miniPCIe, 2x Universal I/O Bays Expansion Availability Depends on Product Configuration		
COOLING	Technology	Fanless and Ventless		
POWER	Input	9 ~ 48VDC (24VDC Nominal), Ignition Key		
ENVIRONMENT	Operating Temp.	-25° ~ 70℃		
	Storage Temp.	-30° ~ 85℃		
	Humidity	10 to 95% Relative Humidity (Non-condensing)		
CERTIFICATIONS	Regulatory	EU/UK: CE, UKCA; North America: FCC Class A; Japan: Factory Option; Other Countries (Factory Option)		
	Cellular	Factory Option		
	Environment	RoHS3, REACH		
	Ingress	IP20		
MECHANICAL	Enclosure	Material: Metal; Color: Black		
	Dimensions	240x79.2x261mm (WxHxD)		

SOFTWARE		
SOFTWARE	OS	Windows 10/11; Linux (Ubuntu LTS)