

ReliaCOR 40-13

FANLESS BOX PC - Intel Core - Expandable - Compact



- Compact and Fanless
- Up to 13th Gen Intel Core i9
- Best in Class Cybersecurity
- Ignition Ready
- Industrial Grade
- 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 13th Gen CPU, it supports a large variety of workloads, including general purpose computing, data logging, HMI

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

Best in Class Cybersecurity : ISA/IEC 62443-4-1/-4-2 SL2 (Hardware plus Software), always on and power independent antitampering monitor and logger, TPM 2.0 and full hardware hardening

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 40-13 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 40-13 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 40-13 features a top-of-line 13th Gen Intel Core i9 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 40-13 is also rich in Fieldbus interfaces, with CAN, RS-232/422/485 and isolated Digital I/O.

The ReliaCOR 40-13 offers best in class Cybersecurity: it leads the market with ISA/IEC 62443-4-1/-4-2 SL2. Protection starts at the hardware level, with full support for TPM 2.0, Secure Boot and an always-on physical antitampering monitor/logger that is active even when the system is removed from power. For most demanding customers, special production-only images can be configured with full hardware hardening (interface disabling) to further reduce the attack surface.

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Eurotech configuration management service offers a simple and fast way to fine tune the ReliaCOR 40-13 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 40-13 flexibility.

The ReliaCOR 40-13 comes with [Everyware Software Framework \(ESF\)](#), a commercial, enterprise-ready edition of Eclipse Kura, the open source Java/OSGi middleware for IoT Edge Gateways. Distributed and supported by Eurotech, ESF supports ready-to-use field protocols (including Modbus, OPC-UA, S7), MQTT connectivity, web-based visual data flow programming and deep configuration. ESF is also integrated with [Everyware Cloud \(EC\)](#), Eurotech IoT Integration Platform (separately available), enabling advanced diagnostics, provisioning, and full remote device access and management.

The device can be optionally configured with [Everyware GreenEdge \(EGE\)](#), IoT edge software solution [qualified for AWS IoT Greengrass V2](#). EGE reduces onboarding time with just a few clicks, provides factory-generated trusted identity, seamless southbound connectivity, easy cloud integration and device management while consolidating IoT costs into one AWS bill.

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Ordering Code: RECOR-40-13-xx-yy				
Hardware Configuration (-xx)		-11	-13	-15
PROCESSOR	CPU	Intel Core i5-13500T, 35W	Intel Core i7-13700TE, 35W	Intel Core i9-13900TE, 35W
	Cores	14 Cores: 6 P-cores + 8 E-Cores	16 Cores: 8 P-cores + 8 E-Cores	24 Cores: 8 P-cores + 16 E-Cores
	Threads	20 Threads	24 Threads	32 Threads
	Frequency	1.30GHz/ 4.50GHz	1.10GHz/ 4.80GHz	1.10GHz/ 5.00GHz
MEMORY	RAM	8GB DDR5	32GB DDR5	64GB DDR5
STORAGE	OS Storage	512GB M.2 NVMe (PCIe x2), TLC		
	Internal Disk	Factory Optional (2.5" SATA MLC or TLC)		
	Data Storage (Removable)	-	1x 960GB, 2.5" SATA, TLC	1x 1920GB, 2.5" SATA, TLC
I/O INTERFACES	1 GbE	-	4x 1GbE RJ-45 (I/O Module Bay #1)	
	2.5GbE	2x 2.5GbE (RJ45, i226) – with TSN, WoL, PXE		
	10GbE	-		2x 10GbE RJ-45 (I/O Module Bay #2)
	USB 2.0	2x USB 2.0 (internal)		
	USB 3.0	8x USB 3.2 Gen2 (10 Gbps) 1x USB 3.2 Gen1 (5 Gbps, Internal)		
	Serial	2x RS-232/422/485 (DB9)		
	CAN	2x CANBus (DB9)		
	Digital Output	8x Digital OUT (isolated)		
	Digital Input	8x Digital IN (isolated)		
	Audio	1x Mic-in, 1x Line-out		
Expansion Modules	I/O Module Bay #1	-	Standard: 4x 1GbE [RJ45]	
	I/O Module Bay #2	-		Standard: 2x 10GbE [RJ45]
VIDEO OUTPUT	DisplayPort	2x DisplayPort		
	VGA	Yes		
	DVI-D	Yes		
RADIOS	5G	Factory Option		
	LTE 4G	Factory Option		
	GNSS	Factory Option		
	Wi-Fi/BT	Factory Option		
CYBERSECURITY (HW)	TPM	TPM 2.0		
	Antitampering	Yes		
COOLING	Technology	Fanless and Ventless		
POWER	Power Input	9 to 48VDC (24VDC Nominal), Ignition Key		
	Consumption	60W	65W	90W
ENVIRONMENTAL	Operating Temperature	-25 to +50°C without external air flow, +65°C with mild external air flow		
	Storage Temperature	-30°C to +85°C		
	Relative Humidity (Non-considering)	10 to 95%		

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CERTIFICATIONS	Regulatory	CE, FCC, ISED
	Cybersecurity	Secure Boot, Always-on Antitamper Monitor, TPM 2.0, ISA/IEC 62443-4-1*/-4-2* SL2
	IoT Platform	GreenEdge*, AWS IoT GreenGrass qualified*, AWS IoT Core qualified*
	Safety	UL 62368-1 (UL-Mark)
	Cellular	Factory Option
	Environmental	RoHS3 & REACH
	Ingress	IP20
MECHANICAL	Enclosure	Material: Metal; Color: Black
	Dimensions (WxHxD)	240 x 79 x 261 mm (WxHxD); Excluding connectors and mounting brackets

* ongoing

Ordering Code: RECOR-40-13-xx-yy								
Software Configuration (-yy)		-03	-05	-07**	-08	-09	-11	-12**
OS	Ubuntu LTS 22.04 or later	Yes			-	Yes		
	Windows 10 IoT Enterprise LTSC 2021	-			Yes	-		
IOT FRAMEWORK	Everyware Software Framework (Java/OSGi)	Yes	-	Yes	-	Yes		
SUITE AND SERVICES	Everyware GreenEdge (EGE)**	-		Yes	-			Yes
	Ignition Ready (IPCs)	-	Yes		-		Yes	
Software Hardening	Hardening**	-				Yes		

** Available for mid Q1 2025

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