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/OSGivmiddleware 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 configurated 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		

** IEC 62443-4-2 SL2 certification for AWS IoT Greengrass not included
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