



- NVIDIA® Jetson Orin™ AGX, Up to 275 TOPS
- Best in Class Cybersecurity
- Camera Support
- Certified Radios
- Road Vehicle Certified, E-Mark
- Compact and Fanless
- Easy to Program
- Cloud Certified



## Features

**GPU ACCELERATED :** Powered by NVIDIA® Jetson Orin™ AGX with an Ampere GPU with up to 2048 CUDA cores, 64 Tensor cores that delivers up to 275 TOPS of AI performance

**BEST IN CLASS CYBERSECURITY :** ISA/ IEC 62443-4-1/-4-2 SL2 (Hardware plus Software) certified, always on and power independent antitampering monitor and logger, TPM 2.0 and full hardware hardening

**CAMERA SUPPORT :** Support to 4x PoE, 1x 10GbE, up to 9x 1GbE, up to 9x USB 3.0 Gen1 and 8x GMSL2 Ports (Factory Option)

**CERTIFIED RADIOS :** Breadth of connectivity options: LTE Cat 4 Global cellular modems for multiple geographies (RED Certified), Wi-Fi 6E and Bluetooth 5.3

**EVERYWARE GREENEDGE :** With Everyware GreenEdge, the ReliaCOR 31-11 acquires additional capabilities, evolving into the industry's first fully integrated gateway with Zero-Touch provisioning, AWS IoT Greengrass v2, Eurotech's Everyware Software Framework for IIoT equipment configuration and edge computing, and Everyware Cloud for full edge (and asset) lifecycle management

**COMPACT AND FANLESS :** Offering great reliability thanks to no moving parts; no ventilation grids to prevent dust accumulation inside the unit

**EASY TO PROGRAM :** Build your first pilot IIoT project in a snap: from when you get the Everyware GreenEdge gateway on your desk, you need 30 minutes to get onboard on Everyware Cloud and easily provision your gateway on your AWS IoT environment. Starting building your first edge applications like a store-and-forward datalogger in 10 minutes

**CLOUD CERTIFIED :** Seamless integration with Eurotech Everyware Cloud, AWS IoT Core and other Cloud services

## Description

The ReliaCOR 33-11 is a fanless embedded Edge AI system based on NVIDIA® Jetson Orin™ AGX that has been designed for demanding AI applications in areas such as automotive vehicles, security and surveillance, robotics, industrial automation, and smart cities.

The ReliaCOR 33-11 is powered by the NVIDIA® Jetson Orin™ AGX platform that features an Arm® Cortex®-A78AE CPU delivering up to 275 TOPS of AI performance and integrates an advanced NVIDIA Ampere architecture GPU with 64 Tensor Cores. It supports rich I/O interfaces: Up to 8x 1GbE, up to 4x PoE, 1x 10GbE, 1x USB 3.2 Gen 2 (10Gbps), up to 8x USB 3.0 Gen 1, two serial ports, 2x CAN interface, isolated Digital I/Os and 8x GMSL2 Ports (2x Quad FAKRA) as a factory option. The ReliaCOR 33-11 features with a wide range of wireless connectivity capabilities: it integrates a certified LTE Cat 4 Global cellular modem with GNSS, 5G Ready, Wi-Fi 6E and Bluetooth 5.3. Thanks to dual universal bays, additional interfaces 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 33-11 offers best in class Cybersecurity: it leads the market with ISASecure/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.

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The ReliaCOR 33-11 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, 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 ReliaCOR 33-11 can be come with [Everyware GreenEdge](#), the ReliaGATE 33-11 transforms into the first industrial Embedded Edge AI fully integrated with Zero-Touch provisioning and full trusted chain from manufacturing to deployment, [AWS IoT Greengrass v2](#), and ESF+EC, providing a few-clicks onboarding experience and immediate deployment in most countries, eliminating the need for extensive coding and transforming the device management and IoT operations into a smooth workflow. In addition to its technical advantages, Everyware GreenEdge comes with a unified billing system for all software and services related costs through the Amazon Marketplace. This simplifies the procurement process, making it easier for customers to access and manage the solution while also benefiting from AWS's trusted billing infrastructure.

		Ordering Code: RECOR-33-11-xx-yy		
Hardware Configuration (-xx)		-01	-11	-21
<b>NVIDIA MODULE</b>	Core	NVIDIA® Jetson Orin™ AGX 32GB		NVIDIA® Jetson Orin™ AGX 64GB
	CPU	8-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU, 2MB L2 + 4MB L3		12-core NVIDIA Arm® Cortex A78AE v8.2 64-bit CPU, 3MB L2 + 6MB L3
	GPU	1792-core NVIDIA Ampere GPU with 56 Tensor Cores		2048-core NVIDIA Ampere GPU with 64 Tensor Cores
	Memory	32GB LPDDR5		64GB LPDDR5
	AI Performance	200 TOPS		275 TOPS
	Embedded Storage	64GB eMMC 5.1		
	<b>STORAGE</b>	NVME	120GB, M.2 Key M, PCIe x4, TLC	240GB, M.2 Key M, PCIe x4, TLC
SD		1x Micro SD Socket		
<b>I/O INTERFACES</b>	1GbE Ethernet	1x 1GbE (RJ-45)	1x 1GbE (RJ-45), 4x 1GbE with PoE (RJ-45)	9x 1GbE (RJ-45)
	PoE	-	4x PoE	-
	10GbE Ethernet	1x 10GbE (RJ-45)		
	USB	1x USB 3.2 Gen 2 (Type A), Flash: 1x USB 2.0 (Type A), Console: 1x USB Type C		
	Serial	2x RS-232/422/485 (DB9)		
	CANBus	2x CANBus (DB9)		
	Digital IN	8x Isolated; Terminal Block		
	Digital OUT	8x Isolated; Terminal Block		
	Video	1x HDMI, 3840 x 2160 @ 60Hz		
	Camera Input	Factory Option: 8x GMSL2 Ports (2x Quad FAKRA) Default: Not Fitted		
<b>RADIO INTERFACES</b>	Cellular	-	-	1x LTE Cat 4 Global
	SIM	-	-	2x Micro SIM Socket
	GNSS	-	-	GPS, Glonass, Beidou, Galileo, QZSS
	Wi-Fi/BT	-	Wi-Fi 6E / BT 5.3	-
<b>CYBER (HW)</b>	TPM	TPM 2.0		
	Antitampering	Antitampering Switches		
<b>COOLING</b>	Technology	Fanless and Ventless		
<b>POWER</b>	Power Input	9 - 48VDC Terminal Block; Ignition Key Sense		
<b>INTERNAL EXPANSIONS</b>	M.2 Key B	1x M.2 Key B (3042/3052, USB 3.2 Gen2)		
	M.2 Key E	1x M.2 Key E (2230, PCIe x1, USB 2.0)		
	M.2 Key M	1x M.2 Key M (2242/2260/2280, PCIe x4)		
<b>EXTERNAL EXPANSIONS</b>	Expansion Bays	2x Expansion Bays	1x Expansion Bays	-
<b>ENVIRONMENTAL</b>	Operating Temperature	-20°C to +60°C		
	Storage Temperature	-40° to 85°C		
	Relative Humidity (Non-condensing)	10 to 95% non Condensing		

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Hardware Configuration (-xx)		-01	-11	-21
<b>CERTIFICATIONS</b>	Regulatory	CE, FCC, ISED		
	Safety	IEC 62368-1, UL62368-1 (UL Listed)		
	Radios	-	RED (EU)*	
	Environmental	ROHS3, REACH		
	Cybersecurity	ISA/IEC 62443-4-1/-4-2 SL2*		
	Vertical	E-Mark (Automotive)*		
	Vibration	IEC60068-2-64:2008;Designed to comply with MIL-STD-810G Method 514.7 Procedure I		
	Shock	IEC60068-2-27:2008;Designed to comply with MIL-STD-810G Method 514.7 Procedure I		
	IoT Platform	GreenEdge*, AWS IoT GreenGrass qualified*, AWS IoT Core qualified*, NVIDIA Qualified*		
<b>MECHANICAL</b>	Enclosure	Extruded Aluminum with Heavy Duty Metal		
	Weights	5.02 kg		
	Dimensions	270 (W) x 190 (D) x 95 (H) mm		
	Mounting Options	Wall Mounting/DIN rail (Optional)		

\* Planned or Ongoing

Ordering Code: RECOR-33-11-xx-yy			
Software Configuration (-yy)		-04	-10
<b>OS</b>	Linux Ubuntu with JetPack		Yes
<b>SUITE AND SERVICES</b>	Everyware GreenEdge (EGE)		Yes
<b>SOFTWARE HARDENING</b>	Hardening	-	Yes

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