ReliaCOR 55-20

2U GPU SERVER - 2U - AMD EPYC - GPU - RAID - Short Depth - Redundant

- **2U, 19" Rackmount, Shallow Depth**
- **Accelerated AI, Vision and Video**
- **AI Simulation and Training**
- **Redundant**
- **AMD EPYC 4005/4004 Series CPU**
- **Supporting one NVIDIA RTX PRO 5000 /6000 MAX-Q Blackwell GPU**

Features

Data Vision and Inference : Designed for data acquisition and processing, with support for advanced GPU acceleration

Simulation and Inference : Many configuration options to support a wide range of AI execution modes

Designed for Industrial Environments : Meets the most demanding requirements of Industrial environments: removable disks, redundant power supply and fans

Accelerated AI : Supporting one AMD EPYC 4004/4005 Series CPU, up to 1x RTX PRO 6000 MAX-Q Blackwell GPU and many expansion options, with AI, vision and video acceleration

Security, Management and Remote Access : Supports Eurotech Edge Framework (ESF) and Cloud (EC), providing many benefits, including remote management and secure data transmission

Very Compact : Ideal for space constrained and cabinet deployments with only 2U height and 450mm depth

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 55-20 is a GPU accelerated server that offers exceptional computational performance, storage capacity and network bandwidth for workloads that include data acquisition and fusion, AI inference, video processing and data logging.

Designed for Industrial use cases, it offers full extreme reliability thanks to redundant power supplies, fans and removable disks. Very compact at only 2U and with a shallow chassis depth, the ReliaGATE 55-20 can be deployed in in very small recesses and cabinets.

The ReliaCOR 55-20 features an AMD EPYC 4005/4004 Series CPU, to deliver great computational crunch, and provides AI acceleration thanks to one high-end NVIDIA RTX PRO Blackwell GPU. The flexibility in configuration options allows to tune the capabilities of the ReliaCOR 55-20 to meet the needs of AI execution modes that include training, simulation and inference workloads.

Video and data ingestion and streaming is powered by two 10GbE interfaces; other network configurations are available as a professional service.

The ReliaCOR 55-20 is a great platform for third party AI and Vision software applications, supporting both Windows and Linux.

With three PCIe slots (availability depends on starting configuration), the ReliaCOR 55-20 allows great flexibility in adding features to meet any use case.

The ReliaCOR 55-20 is also a capable storage server, supporting up to six removable bays for 2.5” SATA drives to provide high sustained speed data recording.

Eurotech configuration management service allows fine tuning the ReliaCOR 55-20 to meet and exceed your project requirements; examples of personalized configurations include customer branding (with logo and custom colors) and can go to deep customization with a range of options for project specific requirements (such as frame grabbers, choice of internal components, etc.): call us for more information on configuration management options.

The ReliaCOR 55-20 optionally supports 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 provides 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.

Note: The information in this document may be subject to change without notice and should not be construed as a commitment by Eurotech.
While responsible precautions have been taken, Eurotech assumes no responsibility for any error that may appear in this document.
All trademarks or registered trademarks are property of their respective companies

ReliaCOR 55-20

2U GPU SERVER - 2U - AMD EPYC - GPU - RAID - Short Depth - Redundant

Ordering Code: RECOR-55-20-XX-YY				
Hardware Configuration (-XX)		-02	-13	-14
PROCESSOR	CPU	AMD EPYC 4464P (65W)	AMD EPYC 4564P (170W)	
	Cores	12 Cores	16 Cores	
	Threads	24 Threads	32 Threads	
	Frequency	Up to 5.4 GHz	Up to 5.7 GHz	
MEMORY	RAM	64GB DDR5	128GB DDR5	
AI ACCELERATION	GPU	1x NVIDIA RTX PRO 2000 Blackwell	1x NVIDIA RTX PRO 5000 Blackwell	1x NVIDIA RTX PRO 6000 MAX-Q Blackwell
	CUDA Cores	4352 Blackwell	14080 Blackwell	24064 Blackwell
	RAM	16 GB GDDR7 with ECC	48 GB GDDR7 with ECC	96 GB GDDR7 with ECC
	TDP	70W	300W	
STORAGE	OS Storage	1TB NVMe, M.2		
	Data Storage (Removable)	1x 480GB 2.5" SATA SSD		
	Removable Bays	4x 2.5" SATA (Front) - 2x SATA (Rear - Controller Required, Factory Option) - Factory Option: Hot-Swap		
	SATA Controller	4x Ports		
I/O INTERFACES	1GbE	1x GbE [BMC]		
	10GbE	2x 10GbE (RJ-45)		
	USB	4x USB 3.1 Type A		
	Serial	1x RS-232 (DB9) [BMC]		
VIDEO OUTPUT	HDMI	1X HDMI		
	DisplayPort	1x DisplayPort + 4x DisplayPort (GPU)		
	VGA	1x VGA [BMC]		
CYBERSECURITY (HW)	TPM	TPM 2.0		
COOLING	Technology	4x Redundant Fans, Hot Swappable		
POWER	Input	2x 800W Redundant CRPS		
ENVIRONMENTAL	Operating Temperature	0°C to +35°C		
	Storage Temperature	-30°C to +85°C		
	Relative Humidity (Non-considering)	10 to 95%		
CERTIFICATIONS	Regulatory	CE, FCC, ISED		
	Environmental	RoHS3 & REACH		
	Ingress	IP20		
MECHANICAL	Enclosure	Material: Metal; Color: Silver		
	Dimensions (WxHxD)	2U Rackmount - 438.0(W) x 450.0(D) x 87.0(H) mm; Excluding connectors and mounting brackets		

Ordering Code: RECOR-55-20-XX-YY				
Software Configuration (-YY)		-02	-03	-08
OS	Eurotech Everyware Linux (Ubuntu-based with Eurotech enhancements)	Yes		-
	Windows	-		Windows Server 2022 (64 bit)
IOT FRAMEWORK	Everyware Software Framework (Java/OSGi)	-	Yes(*)	-

(*) Coming soon – Contact Eurotech

Note: The information in this document may be subject to change without notice and should not be construed as a commitment by Eurotech.
While responsible precautions have been taken, Eurotech assumes no responsibility for any error that may appear in this document.
All trademarks or registered trademarks are property of their respective companies