



- High performance Intel CPU and NVidia MXM GPU
- Certified with 4G LTE, GNSS and Wi-Fi 6E; 5G ready
- Automotive Grade (E-Mark)
- Open Platform
- Highly Customizable - choice of CPU, GPU, memory, storage and IO
- Long-term Availability



Features

AI Accelerated : NVidia MXM GPU

High Performance CPU : Intel® Core™ Processor (10th Gen)

Wireless connectivity : LTE Cat 4 cellular modem (multi-SIM), GNSS and Wi-Fi 6E/BT 5.3; 5G ready

Wired connectivity : 4 x RJ-45 (option M12 X-coded) PoE ports at 15.4 W

Multitude of I/O including isolated CAN bus, serial and digital I/O

Cloud Certified : Seamless integration with Eurotech Everywhere Cloud, Microsoft Azure IoT, AWS IoT and other Cloud services

Automotive Grade : E-Mark certification, wide operating temperature, 9-50Vdc power supply with transient protection and ignition key input

Customizable : Flexible: personalization options ranging from HW/SW configurations to branding

Description

The DynaCOR 40-14 in-vehicle system offers high-performance computing powered by 10th Gen Intel® Core™ processors. It is equipped with four RJ-45 PoE ports (optionally M12 X-coded) supporting 802.11af at 15.4 W. This system provides versatile performance, being available in two versions for AI-driven applications, one for CPU computing and one with an optional MXM GPU module for accelerated processing (model 40-14-26-xx).

With multiple expansion options, including one miniPCIe slot and three M.2 slots, along with multi-SIM support for up to two LTE modems, it delivers enhanced flexibility and reliable wireless communication. The DynaCOR 40-14 is provided with Ubuntu Linux operating system.

Security by design is a top priority with built-in support for TPM 2.0 and compliance with RED-DA EN 18031-1.

The system can optionally be equipped 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](#), Eurotech's IoT Edge Management Platform (separately available), enabling advanced diagnostics, provisioning, and full remote device access and management.

For customers requiring more configuration flexibility, Eurotech Professional Services offer an extensive number of options, both for the hardware (e.g. additional features, custom front panel/connectors, branding) and for the software (e.g. customized application images).

RUGGED BOX PC - Intel Core - GPU - LTE - Wi-Fi/BT - GNSS

Ordering code: DYGATE-40-14-XX-YY				
Hardware specifications (-XX)		-01		-02
SYSTEM	CPU	Intel® Core™ i5-10500TE (6 Cores / 12 Threads, 12M Cache, 2.3/up to 3.7 GHz); 35W. Factory options: i3, i7, i9†		
	RAM	32GB 1x DDR4 2666Mhz SO-DIMM; Factory option up to 64GB†		
GRAPHICS / AI	Controller	Intel® processor integrated		Independent MXM module
	GPU MXM	Empty MXM Type B Slot for A500 MXM		NVidia A500 MXM; Factory Option MXM Type A/B†
STORAGE	External	2x swappable 2.5" SATA drive bays with lock on rear panel Supports RAID 0/1, Wide Range Industrial		
	SSD	1x512 GB TLC SATA SSD; customisation available†		
IO	Ethernet	2x Gigabit (RJ45) with iAMT support		
	Ethernet (PoE)	4x Gigabit 803.11af [15.4W PSE] (RJ45)		
	USB	8x USB 3.1 Gen 2 (Type A)		
	Video	2x DP++; 1x HDMI (service use only)		
	Audio	1x line-in, 1xline-out, 1xmic-in (3.5mm jack)		
	Serial	4x Multimode (DB9)		
	CAN	1x CAN 2.0B (DB9); Factory Option 2x CAN-FD†		
	DIO	8x isolated DI (HD15) + 8x isolated DO (HD15)		
RADIO	Cellular	4G LTE Cat 4 Global(*) with 2x SIM; Factory option: 5G RedCap†		
	GNSS	GPS, GLONASS, BeiDou/Compass, Galileo, QZSS		
	Wi-Fi / Bluetooth	Wi-Fi 6E, BLE 5.3		
	Antennas	3x SMA (Cellular, GNSS) + 2x RP-SMA (Wi-Fi/BT)		
UI	LED Indicators	1x Storage Activity (Red), 1x Power (Green), 2x User Programmable (green, blue)		
	Buttons	1x Power, 1x Reset		
	OOB	Factory Option: OOB Management (RJ45)†		
INTERNAL	Mini PCIe expansion	1x mPCIe: populated with CAN 2.0B†		
	M.2 expansion	1x M.2 Key B 3052 (PCIe + USB3): populated with Cellular†		
	M.2 expansion	1x M.2 Key E 2230 (PCIe + USB2): populated with Wi-Fi/BT†		
	M.2 expansion	1x M.2 Key M 2280 (PCIe x4 + SATA)†		
	Sensors	Accelerometer; CPU and system temperature sensors; RTC; Watchdog		
POWER	Supply	Wide Range 9–50Vdc with stabilization and automotive protection		
	DC in	3-pin connector (3W3) with ignition support		
	Remote switch	2-pin remote on/off switch		
	BIOS	AMI BIOS supports sleep/wake from sensors, expansion slots and timer		
ENVIRONMENTAL	Operating Temperature	-20°C to 60°C without turbo boost	-20°C to 50°C without turbo boost	
	Storage Temperature	-40°C to 85°C		
	Environment	10 - 95% Relative Humidity (non-condensing)		
	Ingress Protection	IP20		
	Cooling	Fanless - Passive cooling		
MECHANICAL	Dimensions (W x H x D)	346 x 88 x 221 mm		
	Mounting options	Wall mount brackets with multiple fixing holes		
	Shock	MIL-STD-810G Method 516.6, Procedure 1		
	Vibration	MIL-STD-810G Method 514.6C-3		
CERTIFICATIONS	Regulatory	CE, RED. Future: CRA. Factory option: FCC, others†		
	Safety	EN 62368-1; Factory option: UL/NTRL†		
	Automotive	E-Mark		
	Environmental	RoHS, REACH		
CYBERSECURITY	TPM	TPM 2.0		
	Secure Boot	Supported		
	Cybersecurity	RED-DA EN 18031-1		

† Factory Option means the device can be configured and ordered with this functionality. Contact Eurotech for more information
* Modem is pre-certified for Global operation, but device-level certification may be required. Contact Eurotech for more information

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RUGGED BOX PC - Intel Core - GPU - LTE - Wi-Fi/BT - GNSS

Ordering code: DYCOR-40-14-XX-YY			
Software Specifications (-YY)		-02	-03
SOFTWARE	OS	Ubuntu 24.04 LTS	
	IoT Framework	-	Everyware Software Framework (Java/OSGi)