## DynaCOR 10-00

- EN 50155 qualified
- Rugged and low power
- Based on Intel<sup>®</sup> Atom<sup>™</sup>
- Built-in GPS
- Wi-Fi, 3G, Gigabit Ethernet
- Wide range power supply
- ESF and EDC Ready



## **FEATURES**

**Rugged and compact** – The DynaCOR 10-00 is very powerful, yet compact mobile computer. With extended temperature range and rugged circular connectors, it is the ideal platform for harsh environments both in mobile and industrial applications.

**Certified to Perform** – Designed to meet the transportation market requirements, the DynaCOR 10-00 is EN50155 compliant and supports features such as opto-isolation on I/O and transient and surge protection on the wide range power supply.

**Connected** – With a wide choice of wireless and wired communication interfaces, it is simple to integrate this platform in any vehicle or industrial application.

**Low Power and Fanless** – Designed with high efficiency in mind, the DynaCOR 10-00 delivers exceptional performance and low power consumption.

**M2M Ready** – Ideally suited for Industrial & Rugged M2M applications to connect data with the business enterprise to make intelligent and actionable decisions.

**ESF & EDC Support** – Available with Everyware Software Framework (ESF) to speed up application software development on the device. Also, enjoy the benefits of the Everyware Device Cloud (EDC) to dramatically cut Time-to-Market when building scalable, robust applications that integrate devices to business applications.



The DynaCOR 10-00 is a rugged mobile computer platform that targets demanding vehicle and industrial installations such as those in heavy industry machinery, rail networks and rolling stock, buses, etc. Thanks to the very compact yet rugged design and integration, the system withstands the mechanical and temperature stresses encountered in harsh environmental conditions while providing an exceptional set of communication options needed in diverse use cases.

The DynaCOR 10-00 provides the computational power of the Intel Atom CPU, the connectivity through Wi-Fi and 3G cellular networks, Dual Gigabit Ethernet, a high performance GPS and plenty of transportation specific features such as opto-isolated I/Os, serial ports, USBs and a wide range power supply section.

Being low power, fanless, very compact and EN 50155 certified, the DynaCOR 10-00 is off-the-shelf ready to be integrated in industrial, railway, automotive and similar applications. In addition, the device is IP65 protected and features high-end rugged connectors making the DynaCOR 10-00 easy to maintain and providing long-term reliability in harsh environments.

The DynaCOR 10-00 can leverage Everyware Software Framework (ESF) for fast and reliable device application development and the Everyware Device Cloud (EDC) that provides the entire infrastructure to instantly integrate devices and data into the business enterprise.

Mechanical Drawing	Wi-Fi Secondary Antenna	HSDPA/GPRS/GSM Antenna
	Wi-Fi Primary Antenna	Bus Data Connecto
	GPS Antenna	
	Power Connector	(000) Bus Data Connecto
System Architecture		
-		
CPU MODULE MASS STORAGE	Eurotech Catalyst XL Intel Atom Z510P, 1.1GHz, 512MB RAM soldered on board 2 GB flash disk SSD soldered on board	
WIRELESS	1 Removable microSDHC card slot for data storage (Maintenance Interface) A1: GPS 50 channels Galileo ready, SMA connector	
	A2: Wi-Fi 802.11 a/b/g/n Primary, SMA connector A3: Wi-Fi 802.11 a/b/g/n Secondary, SMA connector	
	A4: HSUPA/HSDPA/UMTS/GPRS modem (data only), SM	MA connector
INTERFACE	M1: Power IN +24VDC (+, - and earth chassis) Key Input	
	M2: 1 x USB 2.0 port (maintenance)	
	5 x Opto-isolated Digital Output 10 x Opto-isolated Digital Input	
	1 x Opto-isolated Digital Input Odometer	
	Audio Ports:	
	1x Stereo Microphone Input     1x Stereo Headphoneo Output	
	<ul> <li>1x Stereo Headphones Output</li> <li>1x Speakers Output</li> </ul>	
	M3: 2 x Gigabit Ethernet ports	
	1x Opto-isolated RS232 serial port	
	1x Opto-isolated RS422/RS232/RS485 serial port,	software configurable
	M4 Screw - System ground connection	
MAINTENANCE INTERFACE	1x serial interface RS232 2x USB 2.0	
	1x SIM Card Slot	
	1x microSDHC slot	
	4x LED	
	1x VGA output,	
	1x Reset pushbutton	
POWER SUPPLY	10.5 ÷ 36 VDC (Optionally 110 and 72 nominal VDC)	
REAL TIME CLOCK POWER CONSUMPTION	24 hours at 25°C (typical) 19 W	
OS SUPPORT	Wind River Linux	
ESF READY	Yes	
EDC READY	Yes	
DIMENSIONS	254 x 129 x 57 mm (L x W x H)	
	1.5 Kg	
OPERATING TEMPERATURE	-25°C ÷ 55°C EN50155 Class T1 (70°C for 10 min)	
OPERATING TEMPERATURE STORAGE TEMPERATURE	-30°C ÷ 80°C	
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North America sales.na@eurotech.com

Europe, Middle East and Africa sales.emea@eurotech.com

Latin America sales.la@eurotech.com

Asia Pacific sales.ap@eurotech.com ETH\_DynaCOR 10-00\_DS\_05/2016

For your local contact please refer to: www.eurotech.com/contacts

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