

DuraCOR 1200

- Wide choice of x86 processors
- Standard Operating System
- 100 GB automotive hard disk drive
- GPS and wireless cellular modem
- 802.11 Wi-Fi
- 10/100 Ethernet
- Serial and USB ports
- Eurotech Software Framework (ESF)



FEATURES

Robust – Can withstand extreme operational conditions on board any type of vehicle.

Extended temperature range – Ideal for in-vehicle operations in any environment EN 50155 class T1: -25 ~ +55°C (-13° ~ +131°F); +70°C (+158°F) for 10 minutes.

Standards – The Duracor products can be certified to be compliant to one or more of the following norms: 2004/104/EC (Automotive applications).

Fanless – Designed to operate without the need of a cooling system.

Designed for mobility – Always connected thanks to the integrated radio sub-systems:

- WWAN GSM/GPRS/EDGE/UMTS/HSDPA/HSUPA
- WLAN (IEEE 802.11 a/b/g)

12 Channel GPS receiver for context aware applications.

Modular Flexible Design – The systems architecture is based on the PC/104 standard so the base unit can be customized for the user's needs.

100 GB Hard Disk – Certified for use in harsh environments; (-40 ~ +85°C; -40 ~ +185°F).

Multiple I/O – Fast Ethernet, Multi-Serial Ports, Isolated Digital I/O and hi-speed USB 2.0 ports are available.

- On board computing and data processing
- Fleet and asset management/localization
- Vehicle asset monitoring

The DuraCOR 1200 compact Rugged Mobile Computer is the ideal solution for installing a powerful and ruggedized system for context aware applications in vehicles (buses, trains, trucks). It can be deployed in harsh environmental conditions where the use of rugged and compact devices is a must.

The DuraCOR 1200 is made to comply with the international standards to withstand shocks, vibrations and high humidity, maintaining high reliability and precision. It can withstand extended temperature ranges without using active cooling fans.

Thanks to the various I/O interfaces it can be integrated in any location within a vehicle for connecting various kinds of peripherals.

The rear panel of the system is dedicated to the field application signal interfacing. The front panel is dedicated to maintenance interfaces: after removing a protective plate, debug connectors are available. All these interfaces are available without disconnecting the system from the field.

The DuraCOR 1200 can be used in all mobile applications where reliability and ruggedness are key factors.

Optionally, the DuraCOR 1200 can be provided with advanced remote diagnostics and SMS configuration and recovery capabilities.

System Architecture

PROCESSOR & MEMORY	Intel Atom @ 1.6 GHz -1 GB RAM -2 GB soldered Flash Intel Celeron M @ 1 GHz -512 MB RAM -2GB DOM Intel Celeron 400 @ 400 MHz -256 MB RAM -2GB DOM
MASS STORAGE	100 GB Automotive Class HDD
I/O PORTS	10/100 Mbps Ethernet 2 x USB 2.0 Serial Ports: <ul style="list-style-type: none"> • RS232 (5 wires) • RS232/422/485 BIOS selectable Digital I/Os: <ul style="list-style-type: none"> • 7+1 Isolated Digital Inputs (1 reserved as "ignition switch input") • 5 Digital Outputs (500 VAC insulation for 1 min)
WLAN	Integrated IEEE 802.11 a/b/g; external antenna required
WWAN	GSM/GPRS/EDGE/UMTS/HSDPA/HSUPA functionality (SIM holder available on the rear panel); external antenna required
GPS	12 channel GPS receiver with full Position, Velocity and Time functionality; external antenna required
AUDIO PORTS	Stereo Line IN Stereo Line OUT
LED INDICATORS	Power ON Power good 4 user programmable
SERVICE PANEL INTERFACES	Mini-DIN for keyboard and mouse DB 15 Analog CRT monitor Reset button I2C port for status monitor and debug
POWER SUPPLY	12/24 VDC Nominal
POWER CONSUMPTION	1.8/0.9 A Nominal
DIMENSIONS (L x W x H)	254 x 129 x 57 mm (10.04" x 5.08" x 2.24")
WEIGHT	< 2 Kg
OPERATING TEMPERATURE	EN50155 class T1: -25 ~ +55°C (-13 ~ +131°F); +70°C (+158°F) for 10 minutes
STORAGE TEMPERATURE	-40 ~ +85°C (-40 ~ +185°F)
HUMIDITY	95% relative humidity non condensing
ENVIRONMENTAL	IP 65 (NEMA 4X)
COMPLIANCE	The Duracor products can be certified to be compliant the following norms: EN 50155 (Railway applications) <ul style="list-style-type: none"> • EN 55011 (Industrial, scientific and medical (ISM) radio-frequency Equipment. Electromagnetic disturbance characteristics. Limits and methods of measurement) • EN 61373 (Vibrations & Shocks) • EN 60950 (Safety) • EN 61000 (Immunity, Emission) • EN 60068 (Environmental testing) 2004/104/EC (Automotive applications)
SOFTWARE	Operating System: <ul style="list-style-type: none"> • Linux, Xpe Optional: <ul style="list-style-type: none"> • Eurotech Software Framework (ESF)
PERIPHERALS & ACCESSORIES	Cable set with standard connectors for an easy peripherals and I/O connection Wi-Fi dual band antenna GPS magnetic mount antenna kit HSDPA 5 band antenna kit

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