

DuraCOR 1400

High Integration Rugged Mobile Computer

Features

General Features:

- Wide choice of x86 processors
- Linux Operating System
- 50 GB automotive hard disk drive
- GPS and wireless cellular modem
- 802.11 Wi-Fi
- Multiple 10/100 Ethernet
- Multiple Serial
- Audio I/O matrix and Audio I/O Codec
- Eurotech Software Framework (ESF)

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:

- EN 50155 (Railway applications)
- 2004/104/EC (Automotive applications)

Fanless. Designed to operate without the need of a cooling fan/filter; avoids excessive internal heating due to obstructed air filters.

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)

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

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

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

Audio Mixer. By combining up to 4 audio sources with up to 4 audio outputs, the vehicle audio system can be managed by this unit.



Applications:

- On board computing and data processing
- Fleet management / localization
- Asset tracking and monitoring
- High-end audio/video processing
- Announcement and PIS

The DuraCOR 1400 Compact Rugged Vehicular Computer is the ideal solution for installing a powerful and ruggedized system for context aware and audio I/O applications in vehicles. It can be deployed in harsh environmental conditions where the use of rugged and compact devices is a must.

The DuraCOR 1400 is equipped with 4 audio inputs and 4 audio outputs channels to manage all the on board audio sources and outputs (driver microphone, radio, TV audio and many more).

Five Fast Ethernet ports allow the connection of devices such as Ethernet cameras with integrated signal compression for video surveillance applications.

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. Moreover these interfaces are available without disconnecting the system from the field.

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

Optionally, the DuraCOR 1400 can be provided with advanced remote diagnostics and SMS configuration and recovery capabilities.

For further information on Eurotech rugged mobile computers and accessories, please visit our website: www.duracor.com.

DuraCOR 1400

Specifications



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	50 GB Automotive Class HDD
I/O PORTS	1x 10/100Mbit Ethernet 4x 10/100 Mbps Ethernet switch (unmanaged) 2x Hi-Speed USB 2.0 7 Isolated Digital Inputs (1 reserved as "ignition switch input"), 5 Isolated Digital Outputs Serial Ports: <ul style="list-style-type: none">• 9x RS-232 Serial port• 1x RS-422 / 485 Serial port Audio: <ul style="list-style-type: none">• 4 Stereo Line Inputs• 4 Stereo Line Outputs
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
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	9 ~ 36 VDC
POWER CONSUMPTION	< 15W
DIMENSIONS (L x W x H)	255 x 129 x 57mm (10.04" x 5.08" x 2.24")
WEIGHT	< 3 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 to one or more of the following norms: EN 50155 (Railway applications) 2004/104/EC (Automotive applications) 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)
SOFTWARE	Operating System: <ul style="list-style-type: none">• Linux (kernel 2.6) 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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