DynaVIS 10-00

Mobile Display Computer - 5.7" Touchscreen Display



- **EN50155 qualified**
- **Rugged and low power**
- **5.7" VGA Touchscreen Display**
- **Based on Intel® Atom™**
- **Built-in GPS**
- **Wi-Fi, 3G, Gigabit Ethernet**
- **Many power supply options**

Features

Rugged and Compact - The DynaVIS 10-00 is very powerful, yet compact. With extended temperature range and rugged circular connectors, it is the ideal platform for hash environments
Certified to Perform - Designed to the transportation market, the DynaVIS 10-00 is EN50155 compliant and supports features such as optoinsulation and wide range power supply
Connected - With a wide choices of wireless and wired communication interfaces, it is simple to integrate this platform in any vehicle
Low Power and Fanless - Design with high efficiency in mind, the DynaVIS 10-00 delivers exceptional performances and low power consumption
ESF Support - The DynaVIS 10-00 supports Everyware Software Framework (ESF), to speed up the application software development
EC Ready - Enjoy the benefits of the Everyware Cloud (EC): dramatically cut Time-to-Market when building scalable, robust applications that integrate devices to business applications

Description

The DynaVIS 10-00 is a rugged mobile display computer platform that targets demanding vehicle installations such as those in rail networks and rolling stock, buses, vessels etc. Thanks to the smart design and the high integration, the system is very compact and withstands the mechanical and temperature stresses commonly encountered in harsh environmental conditions while providing an outstanding set of communication options needed in today vehicle installations.
The DynaVIS 10-00 provides the computational power of the Intel Atom CPU, the connectivity through Wi-Fi and 3G cellular networks, Gigabit Ethernet, a 5,7" touchscreen panel, a high performance GPS and plenty of transportation specific features such as optoinsulated I/Os, serial ports, USBs and a wide range power supply section.
Being low power, fanless, very compact and EN50155 certified, the DynaVIS 10-00 can be integrated in railway, automotive and similar applications. Also the device is IP65 protected and features high-end rugged connectors that make the DynaVIS 10-00 suitable to be easily maintained and provide long-term reliability in harsh environments.
The DynaVIS 10-00 can leverage Everyware Software Framework (ESF) for fast device application development and Everyware Cloud (EC) that provides all the infrastructure needed to instantly integrate devices into the business application.

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Specifications		
PROCESSOR	CPU	Intel Atom, 1.1GHz
MEMORY	RAM	512MB RAM Soldered on Board
STORAGE	SSD	2GB Flash Disk SSD Soldered on Board
	Other	1x Removable microSDHC Card Slot for Data Storage (4GB Card)
DISPLAY	LCD	5.7" LCD Type Transmissive Color TFT; VGA 640X480 with Resistive Touch Screen, Backlighted – Colors: 262K; Brightness: 280 cd/m²; Contrast Ratio: 350:1, Viewing Angle: +/-70°; Antiglare Surface
I/O INTERFACES	Ethernet	2x 10/100/1000Mbps
	USB	1x USB 2.0, 1x USB 2.0 (Maintenance)
	Serial	1x Opto-isolated RS-232, 1x Opto-isolated RS-485, 1x Serial Interface RS-232 (Maintanance)
	CAN bus	1x CAN bus
	Digital I/O	5x Opto-isolated Digital Output, 10x Opto-isolated Digital Input, 1x Opto-isolated Digital Input Odometer
	Video	1x VGA (Maintenance)
	Audio	1x Stereo Microphone Input, 1x Stereo Headphones Output, 1x Speakers Output
RADIO INTERFACES	Cellular	HSUPA/HSDPA/UMTS/GPRS Modem (Factory Option)
	GPS	50 channels Galileo Ready
	Wi-Fi	a/b/g/n (Factory Option)
	Antennas (External)	1x Cell, 1x GPS, 1x Wi-Fi
OTHER	LEDs	1x PWRGOOD, 1x PWR On
	Buttons	1x Reset
	SIM Slot	1x SIM Card Slot
POWER	Input	10.5 - 36 VDC (Nominal 24VDC), Ignition Key Input (Optionally 110 and 72 Nominal VDC)
	Consumption	19W Typical
ENVIRONMENT	Operating Temp	- 25 to +55°C EN50155 Class T1 (70°C for 10 min)
	Storage Temp	- 30 to +80°C
	Humidity	95% Relative Humidity at +25°C Non Condensing
CERTIFICATIONS	Compliance	EN50155 (Railway applications), EN61373 (Vibrations & Shocks), EN60950 (Safety), EN61000 (Burst Immunity test), EN60068 (Temperature test), DIN-5510-2 (German Fire and Smoke) and ISO-11170 (Italian Fire and Smoke), Load Dump (for 24V In): ISO 7637-2 (2004-06)
	Ingress	IP65
MECHANICAL	Dimensions	230 x 140 x 61.7 mm
	Weight	1.5Kg
	Mounting	Vesa 75 Standard Mounting Holes
SOFTWARE	OS	Wind River Linux Support

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