

1502

15-Inch Vehicle-Mounted Rugged Computer

Duros rugged computers are the new standard in vehicle-mounted terminals. Regardless of the vehicle it is used in, every Duros computer is ready to face the harshest environmental conditions. From use in long-haul big rigs, to first-responder emergency vehicles, to forklifts and pallet trucks, to construction equipment – these computers feature precision-milled aluminum construction in a one-piece design, so bulky corded peripherals are not required.

Though the Duros 1502 rugged computer offers a large 15-inch touchscreen, it still maintains a slim profile making it ideal for use in nearly any rugged environment. It is well-suited for the mining and exploration, construction and goods movement industries. It features the same versatility of the other Duros products—processor and port customization, removable hard drive, wide-range voltage input and the ability to run a variety of operating systems.

Each Duros computer is compliant to the stringent MIL-STD-810C and -810E military specifications and tests for vibration, shock, and dust and moisture ingress (sealed to IP65). The exterior housing is comprised of two solid, precision-milled aluminum halves with integrated passive heatsinking, which increases the ability to handle temperature extremes. The interior is designed so that all boards are securely mounted with multiple screws and there are no loose wires or cables inside the machines to cause failures.

The Duros product line includes mountable, display computers with screen diameters from 10 to 15 inches, and most include features such as a removable hard drive, high-bright displays, wide-range voltage input, and numerous processor configurations, all of which allow for fast, reliable access to critical data from field users.



Solid one-piece aluminum design

Extra-large touchscreen

Shock and vibration tested

Environmentally sealed to IP65

Wi-Fi and Bluetooth® 2.0

Wide-range voltage input

DUROS®
The Standard in Rugged Computing

PROCESSOR

Intel® Celeron® M 1.0 GHz
Intel® Celeron® M 1.5 GHz
Intel® Pentium® M 1.4 GHz
Intel® Core™ Duo 1.66 GHz

MEMORY

1 GB DDR SODIMM
2 GB DDR SODIMM (Core Duo only)

OPERATING SYSTEM

Windows® XP Pro
Windows® XP Embedded
Windows® 7
Linux

STORAGE

Hard Drive 60 GB and up, 2.5" ATA/IDE
CompactFlash 1 GB and up (optional)
Fixed Flash 2 GB and up, 2.5" ATA/IDE (optional)
PC-Card slot for ATA/IDE (flash, optional)
Compact Flash for ATA/IDE (flash and rotating, optional)

DISPLAY

15.1-inch XGA (1024 x 768 pixels)
Color active matrix TFT 256K colors
120° horizontal viewing angle, 0-100% dimmable
400 nit (750 nit sunlight-viewable optional)

GRAPHICS / SOUND

Up to 32 MB shared memory
AC97 and Soundblaster Pro compatible
Built-in Speakers (IP65)

ENVIRONMENT

Operating Temperature: -4°F to +122°F
[-20°C to +50°C]
Storage Temperature: -22°F to +167°F
[-30°C to +75°C]
Water and Dust Sealing: IP65 (IP66 optional)
Humidity: 10 - 95% RH, non-condensing
Vibration: 5-500Hz/4.5 g RMS 3 hours XYZ (non-rotating disks)
Shock: 30 g for 11 ms (non-rotating disks)
MIL-STD-810E and MIL-STD-810C compliant
Track vehicle tested
Highly Accelerated Life Tested (HALT)



USER INTERFACE

Power switch and manual dimmer control
High-resolution resistive touchscreen (optional)
Built-in speakers (IP65)

WIRELESS

CardBus PCMCIA compatible
WLAN, GSM, GPRS, UMTS
Bluetooth 2.0 + EDR, Class 1 (optional)

DIMENSIONS

Aluminum housing, powder coated
14.1" (w) x 11.3" (h) x 2.6" (d)
[358mm x 286mm x 67mm]
11.7 lbs. [5,3kg]

POWER SUPPLY

9-36 VDC
5W standby, 25W operating, and max 45W
110/220 VAC @ 60/50 Hz (optional)

REGULATORY APPROVALS

DIN 40050 Part 9 IEC 529
UL: UL94, Class VO
FCC: Part 15 Subpart B, Class B
E-Vehicle directive certified
International Safety: CE Vehicle, FCC light industry
Electrical: ISO7632-1, reverse polarity, dual battery
EMC Susceptibility: ISO7637-2, EN61000-6-2
EMC Emissions: EN55022
Temperature: IEC 68-2-36 Fdb, IEC 68-2-27,
IEC 68-2-1 Ad, IEC 68-2-2 Bc, IEC 68-2-30 Db,
IEC 68-2-1 Aa, -2 Ba, -14 Na

WARRANTY

1 year standard
3 year extended (optional)

PORTS

CardBus PCMCIA 32-bit, 2x Type II or 1x Type III
2x USB 2.0
2x serial ports RS-232C, COM 1-2, up to 115 Kbit/s
1x Firewire
1x Ethernet 10/100-TP, RJ45
1 DB9 Mouse/Keyboard (PS/2 adaptable)
1 DB9 Multimedia (buzzer, microphone, CD in and line out stereo)
2x extra serial ports RS-232C (optional)
1x VGA out (optional)
1x CAN bus (optional)

