

# 1204

## 12-Inch Versatile 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.

The Duros 1204 rugged computer is a mid-sized, vehicle-mounted terminal ideal for use in the trucking, warehousing, shipping, and



logistics industries. It features a sunlight-viewable, 12-inch SVGA touchscreen. With multiple port configurations and a variety of compatible operating systems, the Duros 1204 is extremely versatile. And unlike a laptop, the one-piece design leaves no chance for broken screen hinges or keypads.

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.



**Sunlight-viewable touchscreen display**

**Solid, one-piece aluminum design**

**Shock and vibration tested**

**Environmentally sealed to IP65**

**Removeable hard drive**

**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)  
CompactFlash for ATA/IDE (flash and rotating, optional)

## DISPLAY

12-inch SVGA (800 x 600 pixels) (XGA optional)  
Color active matrix TFT 256K colors  
120° horizontal viewing angle, 0-100% dimmable  
400 nit (1000 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  
12.0" (w) x 9.3" (h) x 2.4" (d)  
[305mm x 240mm x 61mm]  
8.2 lbs. [3,7kg]

## POWER SUPPLY

9-36 VDC  
5 W standby, 25 W operating, and max 45 W  
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)

