Rugged Portable Computer
Special Computer | JEC Series

JEC-1501

Rugged 15" LCD Portable Computer with Intel® Pentium/Core 2 Duo/Core 2 Quad Platform

Features

- Supports Intel® Pentium, Core 2 Duo and Core 2 Quad processor
- Supports 15" LCD panel. Sunlight-readability and touch screen are optional
- Provides all kinds of I/O interface, optional aviation connector as per requirement
- Supports industrial class and military class EMC/EMI performance
- Supports full range of rugged performance
- Highly adaptable to in-vehicle and field applications
- Supports free customization

BASIC SPECIFICATIONS

System

Processor	Supports Intel® Pentium , Core 2 Duo and Core 2 Quad processor, such as: Intel® Pentium 4 2.8GHz/533FSB/512KB-L2/68.4watt* Intel® Core 2 Duo E7400 2.8GHz/1066FSB/3MB-L2/65watt Intel® Core 2 Quad Q9400 2.66GHz/1333FSB/6MB-L2/65watt
Memory	Supports DDR 200/266/333 RAM up to 1.5GB Supports DDR2 533/667/800 RAM up to 4GB
Hardware Monitor	Monitors system status, voltage, temperature and fan speed
Watchdog Timer	1~255 sec./min. timer system reset or interrupt, setup by software

Storage

SATAInterface	Available max. 6 x SATAⅡ interfaces, supports 300MB/s
IDE Interface	Available max. 2 x IDE interface
Floppy	Available max. 1 x FDD
Solid Storage	Available max. 1 x CF type Ⅱ
Drive Bay	Available max. 3 x 2.5" bay Special customization
HDD Capacity	Available wide-temperature 80G Available normal-temperature 160G/250G/320G or others

Display

Graphic Processor	Supports onboard integrated Intel® Graphic Media Accelerator
Video Memory	Max. 384MB share with system memory
LCD Panel	15" LCD panel with resolution up to 1024x768
Brightness	≥ 300cd/m2
Contrast	≥ 400 : 1
Touch Screen	Available
Keyboard	Available anti-water 86-key keyboard with touch pad

Ethernet

Chipset	Supports Onboard Intel or Realtek network chipset
Speed	Max. up to 1000Mbps
Performance	TCP segmentation offload, TCP, UDP, IPv4 checksum offload, interrupt moderation, jumbo frames

I/O Interface

VGA & DVI	Available max. 2 x VGA and max. 1xDVI
RJ-45	Available max. 2 x RJ-45
USB	Available max. 8 x USB2.0 Ports
Serial Port	Available max. 10 x RS-232 of 9-lines Available max. 2 x RS-232/422/485
Parallel Port	Available max. 1 x LPT, supports EPP/ECP
GPIO	Available max. 8 x Digital input or output
Audio	AC'97,available max.1 x Speak-out, 1 x Line-in and 1 x Mic-in

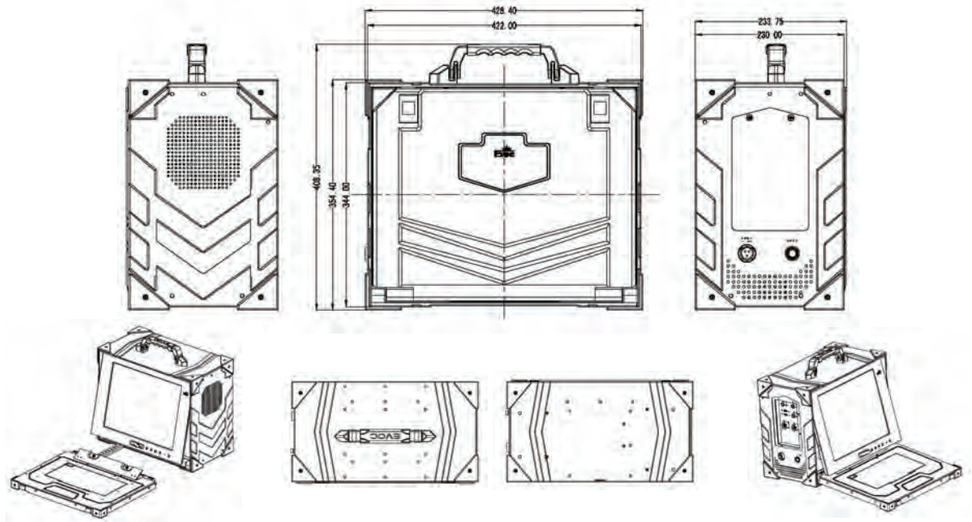
Power Supply

Power Input	Available 9v~36v DC Power input Available AC100-240V/47-63Hz input
Power Type	Available DC-to-ATX Available AC-to-ATX

Other Characteristics

Dimensions(WxDxH)	430.00mm x 230.00mm x 410.00mm (Default)
Color	Available military green
Reliability	MTBF≥10000 h MTTR≤0.5 h
Operating System	Supports Windows 2000 / XP/ Vista / win7 Supports Windows XP Embedded Supports WinCE and Vxworks Supports Linux Rev 2.6 or later

Dimensions



OPTIONAL SPECIFICATIONS

EMC/EMI

Normal-Class	RE: EN55022 Radiated Disturbance, 10m Distance, A/B* Class CE: EN55022 Conducted Disturbance, Power Leads, Electric Field, A/B* Class CS: IEC61000-4-6 Conducted Disturbance Immunity, 1/2/3* Class RS: IEC61000-4-3 Radiated, Electromagnetic Field Immunity, 1/2/3*/4 Class ESD: IEC61000-4-2 Electrostatic Discharge Immunity, 1/2/3*/4 -Class EFT: IEC61000-4-4 Electrical Fast Transient/Burst Immunity 1/2/3*/4 Class SURGE: IEC61000-4-5 Surge Immunity, 1/2/3/4 Class,1/2/3*/4 Class
High-Class	RE102: MIL-STD-461E Radiated Emissions, Electric Field, 10KHz-18GHz CE102: MIL-STD-461E Conducted Emissions, Power Leads, 10KHz-10MHz CS101: MIL-STD-461E Conducted Susceptibility, Power Leads, 30Hz-150KHz CS114: MIL-STD-461E Conducted Susceptibility, Bulk Cable injection, 10KHz-200Mhz RS103: MIL-STD-461E Radiated Susceptibility, Electric Field, 2MHz-40GHz
Others	Special customization

Environment

High-Temperature (Working)	Working: 50℃, MIL-STD-810F Method 501.4 Procedure Ⅱ - Operation Working: 55℃, MIL-STD-810F Method 501.4 Procedure Ⅱ - Operation* Working: 60℃, MIL-STD-810F Method 501.4 Procedure Ⅱ - Operation Special customization
High-Temperature (Storage)	Storage: 55℃, MIL-STD-810F Method 501.4 Procedure Ⅰ - Storage Storage: 60℃, MIL-STD-810F Method 501.4 Procedure Ⅰ - Storage * Storage: 65℃, MIL-STD-810F Method 501.4 Procedure Ⅰ - Storage Special customization
Low-Temperature (Working)	Working: -15℃, MIL-STD-810F Method 502.4 Procedure Ⅱ - Operation Working: -20℃, MIL-STD-810F Method 502.4 Procedure Ⅱ - Operation* Working: -25℃, MIL-STD-810F Method 502.4 Procedure Ⅱ - Operation Special Customization
Low-Temperature (Storage)	Storage: -20℃, MIL-STD-810F Method 502.4 Procedure Ⅰ - Storage Storage: -30℃, MIL-STD-810F Method 502.4 Procedure Ⅰ - Storage* Storage: -40℃, MIL-STD-810F Method 502.4 Procedure Ⅰ - Storage Special customization
Relative Humidity	35℃, 75% @24H, MIL-STD-810F Method 507.4 40℃, 80% @24H, MIL-STD-810F Method 507.4 40℃, 95% @24H, MIL-STD-810F Method 507.4* Special customization
Anti-Shocking	20g/11ms, MIL-STD-810F Method 516.5 Special customization
Anti-Vibration	5-30Hz/1.5g, 30-50Hz/0.4mm, 50-500Hz/3.0g, MIL-STD-810F Method 514.5 Special Customization
Drop	80cm height drops from 6 faces, 3 edges and 1 corner, MIL-STD-810F Method 516.5 Special customization
IP Protection	IP65 / IP54 / IP43 Special customization
Conformal Coating	Anti-Fungus, MIL-STD-810F Method 508.4 Anti-Salt Fog, MIL-STD-810F Method 509.4
Rear I/O Panel	Special customization : I/O interface with aviation connector as per requirement Length of aviation cables as per requirement

Electrical Safety

Grounding Resistance	≤90mΩ, 25A@ 60s, IEC60950
Earth Leakage Current	≤3.5mA, @60s, IEC60950
Electric Strength	10mA/1500V@ 60s, IEC60950
Insulation Resistance	≥100MΩ, 500VDC@ 30s, IEC60950
Others	Special Customization

Note 1： * is recommended

How to choose ODM service and place order

Step 1：Check all the basic specification whether it could be a satisfactory solution.
Step 2：Choose required ODM items from optional specification and ignore those unwanted
For example: JEC-1501
E8400/4GB RAM/1 x 80G HDD
Normal-Class EMC/EMI
Working Temperature: -15℃~+60℃
2 x USB with aviation connector and 1m long cable
1 x COM with aviation connector and 1m long cable

The images are for reference only, and all product specifications are subject to change without notice. 4-16