



eTOP-EPC1245T Tech-Note

The 12.1" XGA fanless panel PC APPC 1245T incorporating an industrial motherboard is intended for versatile industrial applications. APPC 1245T supports 1024 x 768 (XGA) resolution and 500-nit brightness. The front panel which adopts flush design and complies with IP65 standard makes it the perfect fit in industrial applications. This APPC series supports WWAN/WLAN expansion and others via dual Gigabit Ethernet connectors, two mini-PCIe slots and one SIM card holder.

With support for wide power input of 12~30VDC, this APPC series can gain a strong foothold in industrial field and machine devices. In addition, this APPC series can hook 2nd display via a VGA port for dual independent display. APPC 1245T has two isolated RS232/422/485 ports.



- 4:3 12.1" XGA fanless LED panel computer
- Intel® Celeron® J1900, Quad Co re, low consumption CPU
- Flush panel by 5-wire touch screen
- Dual GbE/2nd display-VGA/Line-out/PS2 KB/MS
- 3 x USB/2 x mini-PCle sockets/1 x CFast/2 x RS232/422/485
- DDR3L 4GB/2.5" HDD bracket
- IP65 compliant front panel
- Mounting support: panel/wall/stand/VESA

Specifications

Panel

LCD size: 12.1", 4:3

Resolution: XGA 1024 x 768 Luminance: 500cd/m2 Contrast ratio: 700 LCD color: 16.2M

Viewing angle: 80 (U), 80 (D), 80 (L), 80 (R)

Backlight: LED

Touch Screen

5-wire resistive (flush panel type) Light transmission: 80%

Interface: USB

System

CPU: on-board Intel® Celeron® Quad Core processor J1900 processor, up to 2.42GHz, 2M L2 cache

BIOS: AMI BIOS

System memory: 2 x 204-pin DDR3L S0-DIMM socket, 4GB DDR3L (default), support up to 8GB DDR3L-1066/1333, non-ECC and un-buffered

Storage device:

- 1 x external locked CFast socket
- 1 x hard drive bay: optional 1 x 2.5" SATA HDD or 1 x SATA DOM Watchdog timer: Watchdog timeout can be programmable by

software from 1 second to 255 seconds and from 1 minute to 255 minutes (tolerance 15% under room temperature 25°C) H/W status monitor: monitoring system temperature, and voltage

Expansion: 2 x mini-PCle sockets (support optional Wi-Fi, 3.5G module)

Rear I/O

Ethernet: 2 x RJ45

2nd display VGA port: 1 x DB15

Audio port: 1 x Line-out

USB: 2 x USB 2.0 + 1 x USB 3.0

PS2 keyboard/mouse

Power switch

Reset button

2-pin remote power on/off switch

COM #1: RS232/422/485 w/ 2.5kv isolated COM #2: RS232/422/485 w/ 2.5kv isolated

Audio

HD audio codec: realtek ALC886-GR

Audio interface: Line-out

Ethernet

LAN chip: dual Intel® I210AT Gigabit LAN

Ethernet interface: 10/100/1000 Base-Tx Ethernet

compatible

Mechanical & Environment

Color: Pantone black\RAL 15 00 front bezel w/ Pantone

400C\RAL 090 80 10 metal style membrane

IP protection: IP65 front

Mounting: panel/wall/stand/VESA 100mm x 100mm

Power input: 12V~30VDC

Power adapter: optional AC to DC power adapter

(+12V, 60W) Vibration:

- IEC 68 2-64 (w/ HDD)

- 1Grms @ sine, 5~500Hz, 1hr/axis (HDD operating)

- 2Grms @ sine, 5~500Hz, 1hr/axis (CFast operating)

- 2.2Grms @ random condition, $5\sim500$ Hz, 0.5hr/axis (nonoperating)

Shock:

- IEC 68 2-27

- HDD: 20G@wall mount, half sine, 11ms

Operating temperature: -5°C to 60°C Storage temperature: -20°C to 75°C

Operating humidity: 10%~90% relative humidity, noncondensing limits to be at 90% RH at max 50°C

Dimension: 317 x 243 x 65.89mm

Weight: 4 Kg

Certifications

CE approval

FCC Class A

OS Support Lists

Windows 7 32-bit/64-bit

Windows 10

