

Fanless Embedded System With Lowest Dimensions



Features

Processor

- ARM Cortex A8: Freescale i.MX515 with 600 MHz
- 2 x 32 kB L1 cache, 256 kB L2 cache
- Vector floating point co-processor

Memory

- System memory 256 MB DDR2-RAM
- Boot Flash 2 MB, with u-boot
- NVRAM 32 kB (battery free solution)
- Internal storage medium Compact Flash socket, Type I/II

Video

- OpenGL® ES2.0 and OpenVGTM 1.1 accelerator
- 24 bit display support up to WXGA resolution
- 15-pin VGA graphic interface on front panel
- Single channel LVDS on internal connector

Clocks and Timers

- Secure Real Time clock (coin cell battery needed)
- Watchdog timer

Interfaces

- 2 x 9-pin D-SUB connectors for CAN or serial ports
version /0: 2 x RS232 serial interface or
version /1: 1 x CAN and 1 x RS232 or
version /2: 2 x CAN/CANopen interface
- 2 x 10/100 Mbit/s Ethernet
- 2 x USB (V 2.0), with 500 mA power supply capability
- 15-pin D-SUB VGA port
- Receptacle for power supply
- Reset push button
- Status LED for power supply status

CAN

- SJA 1000 CAN Controller
- Physical Layer ISO/DIS 11898-2, isolated from logic
- Bus termination is software switchable, 120 Ω resistor

Expansion

- iX-Bus 8/16 bit interface for I/O and low speed peripherals

Power Supply

- Input 9..32 V DC
- Power consumption **tbd**

Physical

- Ambient operating temperature range 0 °C...60 °C
- Non-operating temperature range -20 °C...75 °C
- Humidity 0 % ~ 80 %, non-condensing
- Dimensions (w x h x d): 105 x 49 x 104 mm
- Weight approx. 0.5 kg

Options

- CoDeSys IEC61131-3 runtime environment
- Extended operating temperature range from -30 °C ... 70 °C.

Supported Operating Systems

WES 7, Windows CE.NET 5.0/6.0, Linux;
other operating systems on request...

For special Windows CE images contact your regional
Janz Tec sales office.

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Ordering Information

emPC-A500/0 SY-EPC-50001

- emPC-A500
Industrial Freescale i.MX515 600 MHz
and 256 MB DDR2-RAM
2 x RS232 ports

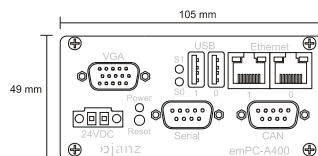
emPC-A500/1 SY-EPC-50000

- emPC-A500
Industrial Freescale i.MX515 600 MHz
and 256 MB DDR2-RAM
1 x CAN/CANopen port, 1 x RS232 port

emPC-A500/2 SY-EPC-50002

- emPC-A500
Industrial Freescale i.MX515 600 MHz
and 256 MB DDR2-RAM
2 x CAN/CANopen ports

CompactFlashes, Windows CE images and other options have to be ordered separately.



Version:
1 x CAN/CANopen,
1 x RS232 port

Dimensions (w x h x d):
105 x 49 x 104 mm

Contact Information

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