



emPC-X

x86 Intel Atom E38xx
Based Embedded
Controller



FEATURES

Processor

- Intel Atom E3825 (2 x 1.33 GHz, 1 MB L2 Cache)
- Intel Atom E3815 (1 x 1.46 GHz, 512 kB L2 Cache)

Memory

- 2 GB DDR3L system memory with 1.067 GT/s
- 128 kB battery-free NVRAM
- Internal CFast Socket for SATA SSD
- Externally accessible SD card slot (optional)

Video

- Intel® HD Graphics with DirectX11, OpenGL 3.0, OpenCL 1.2, OpenGL ES 2.0 support
- full HW acceleration for de-/encode of MPEG2, H.264
- Dual simultaneous display support
- DVI-D graphic interface on front panel (Single Link)
- Single channel LVDS on internal connector

Front Panel Connectors

- 2 x 10/100/1000 MBit/s Ethernet
- 3 x USB 2.0
- 2 x 9-pin D-SUB connectors for CAN or serial ports
- Serial ports with RTS/CTS only
- Reset push button

CAN

- Up to 2 CAN channels available onboard
- SJA1000 CAN Controller
- Physical Layer ISO/DIS 11898-2, up to 1 MBit/s

Power Supply

- Input 9..34 V_{dc}
- Power consumption 12 W

Physical and environmental conditions

- Ambient operating temperature 0°C ... 50°C
- Non-operating temperature range from -20°C ... 75°C
- Humidity 0 % ~ 80 %, non-condensing
- Dimensions (w x h x d): 111 x 62 x 104 mm
- Weight approx. 0.8 kg

Options

- emPC expansion modules, for types and features please see separate data sheet
- CODESYS IEC61131-3 runtime environment
- PCIeexpress mini card socket

Supported Operating Systems

- Windows Embedded Compact (WEC) 7
- Windows Embedded Standard (WES) 7
- Windows 7, Windows 8
- Linux
- Other operating systems on request.

For special operating system images do not hesitate to contact our sales team.