

CANdisplayBOX-M15™ - Series

Fanless, Flexible Windows-based CANbus Controller with 15.0" Display

Technical Description

CANdisplayBOX™ – based on Janz AG's **emVIEW™ Series** – is a versatile, compact embedded control system particularly suited to embedded CANbus control applications. Additionally these computing systems have integrated displays with touchscreen.

Using high-reliability components, a wide variety of hardware and software options are available in the tiny ARM based **CANdisplay-BOX™**. Display dimensions start at 6.5", other displays with up to 15.0" are optionally available.

64 MB SD-RAM is sufficient to control Windows CE operating systems, while 512 MB industrial grade CompactFlash card storage can easily be upgraded. Power consumption is low, so reliable cooling is completely passive.

With standard interfaces of two 10/100BaseT Ethernet, two USB2.0, one RS232 and one CANbus, this versatile controller system has remarkably small dimensions.

The widely-used embedded operating system Windows CE 5.0 comes standard, while other choices are possible and can be selected to perfectly match customer needs.

Every **CANdisplayBOX™** system is 100% tested and is customizable even in small quantities, with a guaranteed lifetime availability of 5 years – essential for medical and military equipment design.

A wide range of operating systems is offered, with design-team hardware and software support. If required, customer-specific software can be preloaded.

For more details, please contact Saelig or Janz offices.



Features / Technical Specifications

Display

- 15.0" XGA TFT LCD display
- resolution 1024 x 768
- contrast ratio 700:1
- luminance 350 cd/m²

Touchscreen

- resistive touchscreen
- 4-wire connector
- RS232 controlled
(one internal RS232 port will be used for touchscreen)

System

Processor

- Intel Xscale IXP420 with 400 MHz
- L1 cache (32 kB instruction, 32 kB data)

Memory

- system memory 64 MB SD-RAM
- Boot Flash 2MB, with boot loader
- NVRAM 32 kB (auto-backup to EEPROM, no battery needed)
- internal storage medium Compact Flash socket, Type I/II

Clocks and Timers

- Timekeeper (TOY); part of the NVRAM, requires external battery
- Watchdog timer

Interfaces

- dual 10/100 MBit/s Ethernet on front panel
- dual 4-wire UART on internal connector
- dual USB (v2.0), with 500mA power supply capability

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Video

- graphic controller Silicon Motion SM501
- 8 MB video memory (separate from main memory)
- single channel LVDS on internal connector

Expansion

- iX-Bus 8/16 bit interface for IO and low speed peripherals
- expansion PCI bus on internal expansion connector

CAN

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

Power Supply

- input 14 ... 32V_{DC}
- power consumption max. 7W

Physical

- ambient operating temperature: 0°C ... 50°C
- non-operating temperature: -20°C ... 75°C
- humidity 0% ~ 80%, non-condensing
- dimensions of complete **CANdisplayBOX-M15™**
(w x h x d): 15.1" x 12.1" x 4.7"
display cut-out dimensions (w x h) 14.3" x 11.3"
- weight approx. 5.6 kg (12.3 lb)

Supported Operating System

- Windows CE 5.0

Options on request

- CoDeSys Soft PLC Runtime Environment, pre-installed
- CoDeSys Soft PLC Target Visualization, pre-installed
- CoDeSys Soft PLC Web Visualization, pre-installed
- CoDeSys Soft PLC Soft Motion, pre-installed
- I/O expansion modules
- Additional connectors for CANbus/ RS232 etc.
- Different Operating System support
- Custom specific front panel design
- Custom specific system modifications

Ordering information CANdisplayBOX-M15™

CANdisplayBOX-M15™ KD-SAE-91150

15.0" Display with resistive Touch Screen
Intel Xscale IXP 420 with 400 MHz and 64 MB SD-RAM
1 x CAN/CANopen port, 1 x RS232 port
512 GB CompactFlash Medium
Windows CE 5.0, pre-installed

For further information and options call **1-888-7SAELIG**.

Contact Information

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