

VS-860

8" RISC-based Slim Touch Panel PC

| | |
|------------------------------|---|
| System | |
| Hardware | ARM Cortex-A8 32-bit RISC CPU, 600 MHz 256 MB SDRAM (512 MB option) 256 MB NAND Flash (512 MB option) Real time clock with battery backup (CR2032) Watchdog Timer |
| Mass Storage | Internal NAND Flash Memory SD-card Reader SD 2.0 / SDHC CFast-Slot Type II, SATA connection |
| Network | 2 x Fast Ethernet Option: WLAN 802.11b/g/n Option: Bluetooth |
| Display & Touch | 8" Panel 800×600 Resistive Touch function |
| Audio | Audio-In and -Out Jacks |
| Expansion Slot | 1 x miniPCI Express, USB 2.0 signals (for GSM/3.5G, GPS, ...) SIM Slot for GSM/3.5G modems in miniPCIe slot |
| Serial Interfaces | 2 x USB 2.0 as Host 1 x USB 2.0 OTG 1 x Console Port RS232, up to 115200 bps 2 x RS232/422/485 up to 3.0 Mbps 1 x CAN Bus up to 1.0 Mbps |
| LED | 1 x Power on Front LAN: 2 x 10M/Link, 100M/Link, integrated in RJ45 connector |
| Buttons | 1 x Power 3 x User definable |
| Serial Interface | |
| Serial Port | 2x RS232/422/485, selected by software or DIP switch Highspeed UART, 128 Byte FIFO RS232: up to 500 kbps RS422/485: up to 3.0 Mbps |
| Available Modes | RS232 RS422 full duplex RS485 4-wire, full duplex RS485 2-wire, half duplex, without echo |
| Signals | RS232: TxD,RxD, RTS, CTS, DTR, DSR, DCD, RI, GND RS422: Tx+/-, Rx+/-, GND RS485 2-wire: Data+/-, GND RS485 4-wire: Tx+/-, Rx+/-, GND |
| RS485 Data Direction Control | by ART (Automatic Receive Transmit control) |
| CAN Bus | CAN High Speed up to 1 Mbit/s for transmit/receive HECC CAN +TJA1050 (20kbps min.) Signals: CAN_H, CAN_L, CAN_GND |
| Power and Environment | |
| Power | Input 9 - 30V DC min. 900mA @12V max. 3A @12V with USB devices 2-pin Terminal block connector |
| Temperature | Operating: -10°C - 50°C Storage: -20°C - 70°C |
| Mechanical | |
| Dimensions | 219 x 44 x 179 mm ³ (W x D x H) |
| Weight | 1.45Kg |
| Construction Material | Metal |
| Mounting | Panel Mount VESA 75 x 75 |

8" RISC_based Slim Touch Panel PC

| | |
|--|---|
| Software Specifications | |
| Linux | Debian GNU/Linux for ARM Enhanced support for USB Watchdog Timer supported |
| Other | Windows CE 6 |
| Device Drivers | |
| Data Communication | USB (supports USB Mass Storage Devices, USB-to-Serial converters, USB – CAN adapter, Bluetooth) UART FT232D, 128 Byte FIFO, RS232/422/485 WLAN 802.11b/g/n optional Bluetooth optional |
| CAN | VScom CAN API, CANFestival, CANopen, LinCAN, SocketCAN |
| Others | RTC Watchdog Timer |
| Approvals | |
| EMC Environment | FCC Class A, CE Class A RoHS |
| Ordering Information | |
| Art. No. | 6850 |
| Product Name | VS-860 |
| Packing List | <ul style="list-style-type: none"> ◆ VS-860 RISC Panel PC |
| Optional Accessories | |
| Power Supply Boot microSDs | Power adapter 12V @ 1.5A with Debian GNU/Linux installed (4/8GB) with Windows CE 6 installed (4/8GB) + License |
| Wi-Fi / Bluetooth GSM/UMTS Starter Kit | Order with the system mPCIe card for 3G modem <ul style="list-style-type: none"> ◆ VS-860 RISC Panel PC ◆ 4GB microSD card for Linux inserted ◆ Power adapter 12V @ 1.5A ◆ Adapter cable for console port ◆ Documentation and Development Software on DVD |

Overview

The VS-860 is a RISC Panel PC, an industrial embedded computer based on ARM Cortex-A8. It features an integrated 8" display panel with resistive Touch function. The great variety of interfaces like LAN/WLAN, CFast, USB, Bluetooth, serial interface plus more options makes it easy to connect various industrial devices to the VS-860.

Compact dimensions and Panel mount capability make the VS-860 to a space saving and flexible mounting industrial computer. It is feasible to be installed even in space limited environments. The optional WLAN and Bluetooth functions provide opportunities for wireless communication. A miniPCIe slot provides options to extend that. For example the connected SIM slot allows to use GSM/3.5G modems.

Due to RISC based architecture the VS-860 has very small power consumption, so fanless heat dissipation is sufficient inside. Working in a wide temperature range from -10°C up to 65°C the VS-860 can be applied in under harsh industrial conditions. Therefore the VS-860 is downright designed for industrial automation.

The embedded computer runs full-featured Debian GNU/Linux on ARM operating system. This system is usually installed on the integrated NAND Flash memory, to operate without extra mass storage. External storage offered is a SD card to place in the card-reader, and an additional CFast card. The operating system may also start from the SD card. With Debian's repository database it is easy to install and update the free software on the VS-860. The system also supports Windows CE 6, starting from SD.

©2014, VSCOM. The VSCOM logo is a trademark of VS Vision Systems GmbH. Other products and brand names mentioned herein may be trademarks or registered trademarks of their respective owners. The information contained herein is subject to change without notice.

You can purchase VSCOM's products easily from a wide variety of leading technology distributors or partners. Please contact us to find the best ordering method for your needs.



Connect to Success

www.vscom.de
sales contact : sales@vscom.de