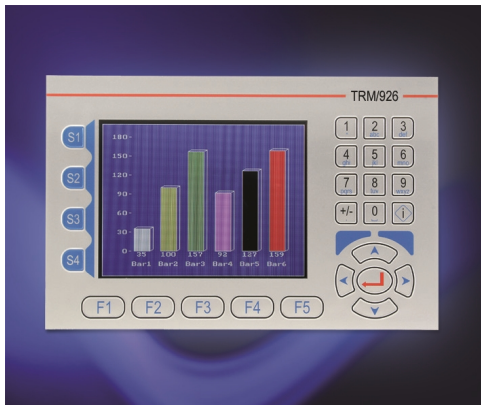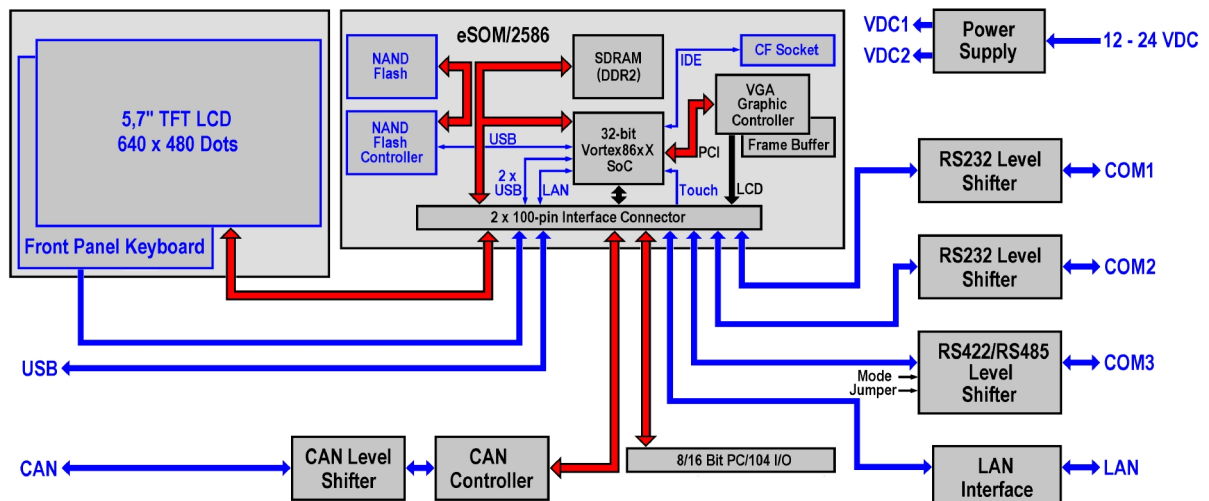Product Information

PC System with keyboard-based User Interface TRM/926

Open frame embedded PC with 5.7″ VGA LCD, front panel keyboard, Linux O/S and Python GTK

Description

The TRM/926 is a compact PC-based open frame operator panel with 5.7″ VGA color LCD and a 26-key front panel keyboard for industrial environments. The TRM/926 is based on the System-on-Module eSOM/2586 and comes with a powerful 600 MHz Vortex86DX 32-bit x86 SoC (System-on-Chip), preinstalled Debian Lenny Linux O/S, full-featured TCP/IP stack, Web (HTTP/HTTPS) server, Telnet/SSH server, FTP/SFTP server, TFTP support, full-featured X-Server, Python 2.5.2 and C/C++ GTK+ run time environment.

The TRM/926 offers a rich set of internal I/O interfaces including 1x 10/100 Mbps Ethernet LAN, 1x 480 Mbps USB 2.0 high speed host, 2x RS232, 1x RS422/RS485, 1x LED output signal for external LAN activity LED, CompactFlash and PC/104 expansion and more. The internal I/O functions can be mapped to the external cabling system.

The software components on the TRM/926 (Debian Lenny Linux O/S, X-Server with VGA LCD and front panel keyboard support, Python 2.5.2/GTK toolkit and API) allow the development of sophisticated platform independent graphical user interfaces (GTK-based) approach.

Technical Data TRM/926

System-on-Module

CPU	Vortex86DX 32-bit x86 SoC
Speed	600 MHz
BIOS	PC-compatible AMI Basic I/O System
RAM	128 MByte DDR2 SDRAM @ 300 MHz bus speed
Flash	1024 MByte NAND-type
Flash Expansion	1x CompactFlash socket
LCD Interface	18-bit TTL interface, VGA-based for TFT/STN panels
LCD Video Memory	64 MByte video RAM with DDR2 interface
RTC	1x Real Time Clock with external battery-backup
Watchdogs	1x timer watchdog, 1x power supervisor
Mechanical	eSOM-200 form factor (2x 100-pin Hirose FX8C connector)

Internal I/O

UART	2x RS232, 1x RS485 (16C550/16C552 compatible)
LAN	1x 10/100 Mbps Ethernet
CAN	1x SJA1000 with FullCAN and BasicCAN support
PC/104	PC/104 interface for 8/16-bit PC/104 I/O cards
USB	1x USB host port for external USB devices with HS (480 Mbps), FS and LS support
LCD	5.7 VGA-size with 18-bit digital RGB interface and LED backlight
LED Output	1x LED output signal for external LAN activity LED

Special Functions

O/S	Linux 2.6.18 (Debian Lenny-based) with X-Server and Python 2.5.2 run time environment (Option ROM-DOS 6.22 O/S)
GUI Support	GTK toolkit and API (GTK is a multi-platform toolkit for creating graphical user interfaces with a complete set of widgets)
Backlight Controller	On-board LED backlight controller for LCD
SSD Expansion	1x CompactFlash (CF) socket with IDE-based interface
Server	HTTP(S), Telnet, SSH, (S)FTP for Ethernet-based access

Other

Mechanical	Front panel dimension 222 x 143 mm
	LCD window dimension 119 x 89 mm
Base Board	BB926/eSOM
Size	205 x 126 mm
Power	12 – 24 VDC
Operating Temperature	-10 – 60 °C
Storage Temperature	-20 – 60 °C

Delivery

TRM/926	Open frame embedded PC with eSOM/2586, base board BB926/eSOM, 5.7″ VGA LCD and 26-key front panel keyboard, preinstalled Debian Lenny Linux O/S with Python and GTK (PyGTK)

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