

Product Information

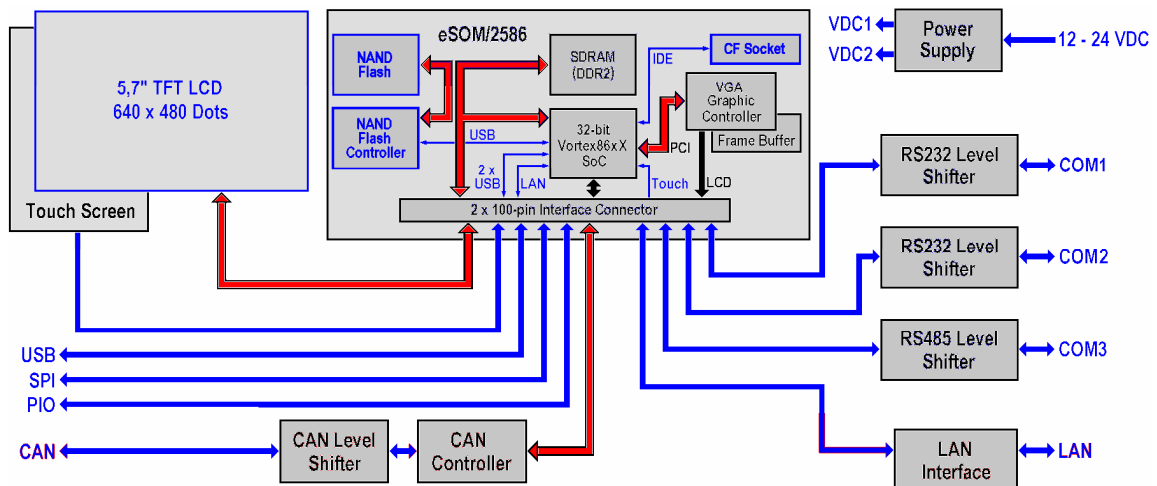
Embedded User Interface EUI/57V

Embedded User Interface Device with 5.7" VGA LCD, Touch Screen, Embedded PC and Java 6



Description

The EUI/57V is a compact PC-based open frame graphical user interface device with 5.7" VGA color LCD and an analog resistive touch sensor. The EUI/57V is based on the System-on-Module eSOM/2586 and comes with a powerful 800 MHz Vortex86DX 32-bit x86 SoC (System-on-Chip), preinstalled Linux O/S, full-featured TCP/IP stack, Web (HTTP/HTTPS) server, Telnet/SSH server, FTP/SFTP server, TFTP support, full-featured X-Server, Java 6 (J2SE) and Swing run time environment.



The EUI/57V offers a rich set of I/O interfaces including 1x 10/100 Mbps Ethernet LAN, 2x 480 Mbps USB 2.0 host, 2x RS232, 1x RS485, 1x CAN, 1x SPI, 7-bit GPIO, 2x LED outputs, CompactFlash expansion and more.

The preinstalled software components on the EUI/57V (Linux O/S, X-Server with VGA LCD and touch screen support, Java 6 with Swing widget toolkit and API) allow the development of sophisticated platform independent graphical user interfaces with a procedural (Java- and Swing-based) or declarative (HTML- or XML-based) approach.

Technical Data EUI/57V

System-on-Module

CPU	Vortex86DX 32-bit x86 SoC
Speed	800 MHz
BIOS	PC-compatible AMI Basic I/O System
RAM	128 MByte DDR2 SDRAM @ 300 MHz bus speed
Flash	1024 MByte NAND-type
LCD Interface	18-bit TTL interface, VGA-based for TFT/STN panels
LCD Video Memory	64 MByte video RAM with DDR2 interface
Touch Screen Interface	4-wire for resistive touch panels (UART-based)
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)

I/O

UART	2x RS232, 1x RS485 (16C550/16C552 compatible)
LAN	1x 10/100 Mbps Ethernet
CAN	1x SJA1000 with FullCAN and BasicCAN support
USB	2x 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
Touch	4-wire analog resistive touch sensor
GPIO	8-bit general purpose input output signals from eSOM/2586 PIO Port B
SPI	1x SPI master interface with one chip select output signal
LED Output	2x LED output signals for external power and LAN activity LED

Special Functions

O/S	Linux 2.6.18 (Debian-based) with X-Server and Java 6 (J2SE) run time environment preinstalled
GUI Support	Java Swing widget toolkit and API preinstalled
Backlight Controller	Programmable 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	Open frame architecture with four mounting points
Base Board	BB6/eSOM
Size	110 mm x 152.4 mm
Power	12 – 24 VDC
Operating Temperature	0 – 60 °C (extended temperature range on request)
Storage Temperature	-20 – 70 °C

Delivery

EUI/57V	Embedded User Interface device with eSOM/2586, base board BB6/eSOM and 5.7" VGA LCD, touch screen
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