

Features

Features:

- Intel XScale® 520MHz PXA270 SBC
- Ultra-low power PC/104 format
- Flat panel graphics controller
- 1.5W maximum power consumption

Supported Operating Systems:

- Windows® CE 5.0
- Linux



The TITAN is an ultra low power PC/104 compatible single board computer based on the 520MHz PXA270 XScale RISC processor. The PXA270 is an implementation of the ARM compliant, Intel XScale microarchitecture combined with a comprehensive set of integrated peripherals including: flat panel graphics controller, USB host/client controller, interrupt controller and multiple serial ports.

The TITAN offers a long list of features making it ideal for power-sensitive embedded communications and multimedia applications. The board has been designed to take advantage of the power saving modes of the PXA270 RISC processor and other onboard peripherals, to achieve an incredible 1.5W maximum power consumption. The TITAN also supports very low power sleep and deep sleep modes.

The TITAN is perfect for applications such as multi-media interface panels, in space-constrained enclosures or mounted directly behind a flat panel for Windows CE-based multi-media machine control applications. The ultra-low power dissipation means you don't need a fan or ventilation for system cooling. The combination of embedded Linux with five serial channels, dual USB and the Ethernet port also makes the TITAN ideal as a communications gateway, protocol converter or wireless network management device.

The TITAN is supported with rapid application Development Kits for Windows CE 5.0 and embedded Linux.

TITAN

Technical Specifications

PROCESSOR	520MHz PXA270 XScale®(-20°C to +70°C) 416MHz PXA270 XScale®(-40°C to +85°C)
SUPPORTED OS	Windows CE 5.0 and Linux
MEMORY	Up to 128MB of soldered SDRAM Up to 64MB of soldered AMD MirrorBit Flash 256kB of battery backed SRAM (using onboard battery)
GRAPHICS	TFT/STN/LVDS flat panel support up to 640 x 480 x 16-bit colour
AUDIO	AC97 audio controller (WM9712L)
USB PORTS	Dual USB 1.1 host ports (USB client option on second port)
ETHERNET	10/100baseTx Ethernet controllers (Davicom DM9000A)
SERIAL PORTS	4 x RS232 and 1 x RS232/422/485
PC PERIPHERALS	Battery-backed RTC, DMA controller, interrupt controller, interval timer, watchdog timer
TOUCHSCREEN	4 or 5-wire touchscreen controller
REAL TIME CLOCK	Accuracy +/- 1 minute/month @ 25°C
DRIVE SUPPORT	SD/SDIO/MMC and resident AMD MirrorBit Flash
GENERAL PURPOSE I/O	16 buffered digital I/O, Intel Quick Capture Camera Interface
HUMIDITY	10% to 90% RH (non-condensing)
POWER SUPPLY	350mA (typical) @ +5V +/-5% 10 to 30V DC/DC input (optional) 1.5W (typical) power consumption, 100mW sleep mode
DIMENSIONS	Industry standard PC/104 format 96mm x 91mm (3.8" x 3.6")
OPERATING TEMPERATURE	Commercial: -20°C to +70°C Industrial: -40°C to +85°C

About EUROTECH

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