TITAN
**Windows CE
Development Kit
Quickstart Manual**

![EuroTech Ltd]
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Revision History

Manual	PCB	Date	Comments
Issue A		1st October 2007	First full release.

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For contact details, see page 13.

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FM12961

Contents

Introduction

The TITAN is an ultra low power, high functionality, PC104 compatible Single Board Computer (SBC) based on the Intel 520MHz PXA270 XScale RISC processor. The PXA270 is an implementation of the Intel XScale micro-architecture combined with a comprehensive set of integrated peripherals including:

- Intel$^®$ Wireless MMX™ designed for high-performance multimedia.

- Three ON-board Serial ports.

- Enhanced LCD controller.

- USB host.

- USB client.

- 4-bit SD I/O.

The TITAN board offers many additional features that make it ideal for power-sensitive embedded communications, wireless, and automotive applications. These include:

- Up to 64MB Flash.

- 4/5 wire analog touchscreen interface.

- Ethernet controller.

- Watchdog timer.

- Two additional serial ports.

- AC'97 audio.

- I2C bus.

- PC/104 bus expansion.

- GPIO.

- SRAM (256K).

See the *TITAN Technical Manual* for details about the SBC features.

Handling your board safely

Anti-static handling

> The TITAN contains a number of sensitive CMOS devices. These could be damaged in the event of static electricity being discharged through them. Please observe anti-static precautions at all times when handling circuit boards. This includes storing boards in appropriate anti-static packaging and wearing a wrist strap when handling them.

ElectroMagnetic Compatibility (EMC)

> The TITAN is classified as a component with regard to the European Community EMC regulations and it is the users responsibility to ensure that systems using the board are compliant with the appropriate EMC standards.

Packaging

> Please ensure that should a board need to be returned to Eurotech Ltd, it is adequately packed, preferably in the original packing material.

About this manual

This manual helps you get your TITAN single board computer up and running as quickly as possible. It provides information about the components contained in your TITAN development kit and tells you how to configure the board and connect it to the host system.

Related documents

This manual is supplied as part of the TITAN Windows CE development kit. Datasheets for the major devices used on the TITAN board along with many other useful examples are also included. For more detailed and up-to-date information please refer to the documentation available on the CD that accompanies your development kit. This includes:

- *Development Kit CD Quickstart Guide* (HTML), which provides detailed information, organized in easy-to-access pages that you can navigate with your browser. It tells you how the CD is organized, where to find things and how to get more information for a particular topic.

- *TITAN Technical Manual* (PDF), which provides detailed reference information about all aspects of the TITAN.

- *TITAN Windows CE development kit Quickstart Manual* (PDF).

Conventions

Symbols

The following symbols are used in this guide:

Symbol	Explanation
	Note - information that requires your attention.
	Tip - a handy hint that may provide a useful alternative or save time.
	Caution – proceeding with a course of action may damage your equipment or result in loss of data.
	Jumper is fitted.
	Jumper is not fitted.
	Jumper fitted on pins 1-2.
	Jumper fitted on pins 2-3.

Getting started

What's in the kit?

The standard TITAN Windows CE development kit contains the following items:

- TITAN-M64-F32-R6 boards.
- +5V @2.5 A (110-240VAC input) power supply.
- TITAN Quickstart manual. (Other technical manuals are included on the CD.)
- Serial port breakout cable.
- RS-232 null modem adapter.
- RS-232 serial cable (ribbon, 2m).
- Flat panel display cable.
- A Touchscreen cable.
- FPIF-CRT (breakout assembly with standard CRT socket).
- Ethernet breakout assembly with standard RJ45 socket.
- USB breakout cable.
- Audio breakout cable.
- PC/104 mounting pillars (two sets).

The development kit may also include:

- Microsoft eMbedded Visual C++ 4.0 CD.
- Microsoft Platform Builder for Windows CE 5.0 (evaluation version).

What else do I need?

If your development kit includes an LCD then you do not need any other components to power up.

If your development kit does not include an LCD then you need a VGA compatible monitor with a DB15 connector.

A USB mouse and an Ethernet connection may also be useful although not essential.

Unpacking and connecting up

This section guides you, step-by-step, through the process of connecting up the TITAN for the first time and powering up the system.

The TITAN is delivered ready to run. There are no link settings or configuration switches that need to be adjusted for the board to operate, however as instructed below, you should enable the battery link so that the on-board RTC operates as expected.

For normal development, connections to the development computer via Ethernet and USB are recommended. The TITAN has DHCP enabled by default, so make sure the development system includes a DHCP server, or connect the TITAN to a network that has DHCP capabilities.

A number of the components are static-sensitive, so standard anti-static precautions must be taken during use. For more information, see Anti-static handling, page 5.
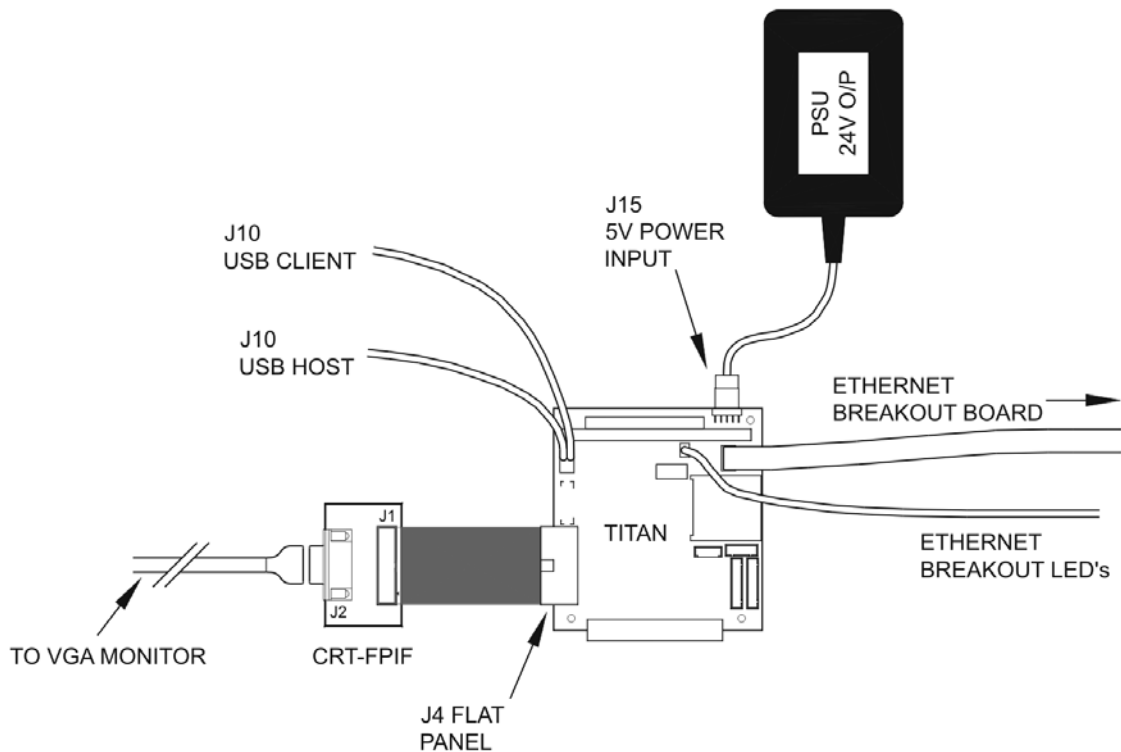
Using the CRT-FPIF & VGA monitor

1 Remove the TITAN CPU board and all other cables from the development kit box and place them on a static-free work surface. If the board shows any signs of damage during transit, please contact Eurotech before proceeding.

2 Enable the battery by fitting the jumper labeled JP1.

3 Plug the Ethernet breakout board cable into the socket labeled J11, and the Ethernet status LED cable into the socket labeled J12.

   Plug an Ethernet cable into the Ethernet breakout board, and the other end into your development system or network. (A crossover cable is supplied in the kit to enable direct connection between the TITAN and your host development PC.)

4 Connect a monitor to the ZEUS-FPFI-CRT board.

5 Connect the ZEUS FPIF-CRT board to the J4 connector.

6 Fit the TITAN power supply cable to the power input J15.

7 Plug in the power supply. The Windows CE desktop appears after about 15 seconds.

The following diagram shows the recommended connections for use with a VGA monitor:

Using the NEC 6.5 inch LCD display

An NEC TFT flat panel (part number NL6448BC20-08E) is supplied in the flat panel variants of the development kit.

For information about other flat panels supported by the TITAN board, contact Eurotech Ltd technical support. See Appendix A - Contacting Eurotech, page 13.

1   Remove the TITAN CPU board and all other cables from the development kit box and place them on a static-free work surface. If the board shows any signs of damage during transit, please contact Eurotech before proceeding.

2   Enable the battery by fitting the jumper labeled JP1.

3   Plug the Ethernet breakout board cable into the socket labeled J11, and the Ethernet status LED cable into the socket labeled J12.

Plug an Ethernet cable into the Ethernet breakout board, and the other end into your development system or network. (A crossover cable is supplied in the kit to enable direct connection between the TITAN and your host development PC.)

> You should make sure that the power is off while connecting the LCD, as the backlight inverter generates a very high voltage.
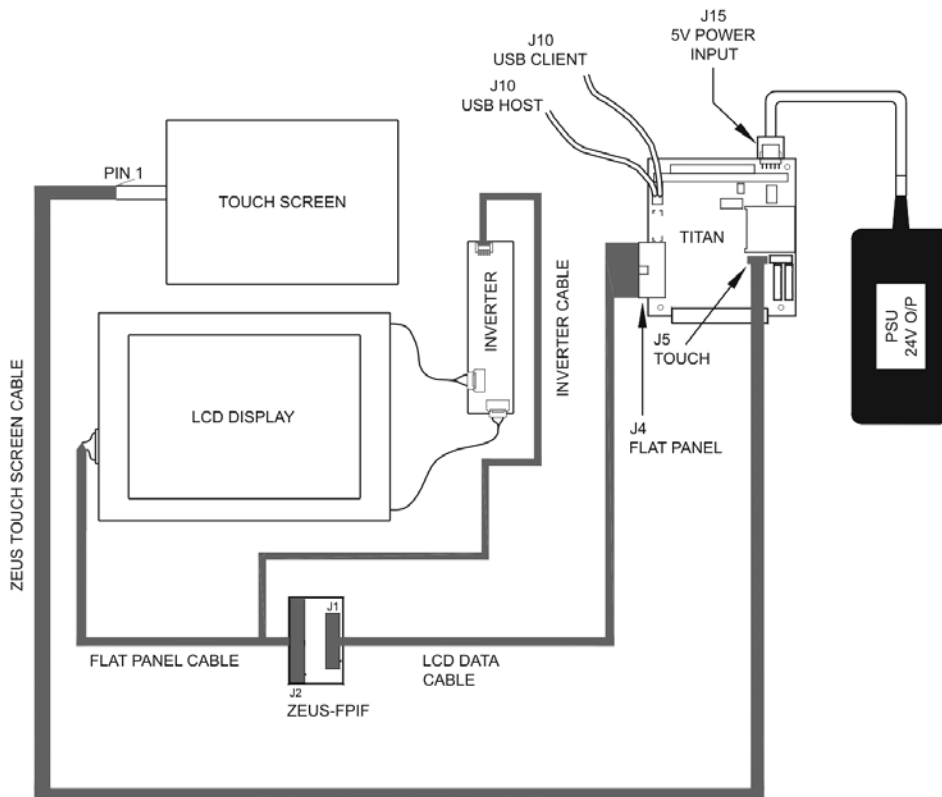
4   Plug one end of the interface cable into the TITAN flat panel connector J4. Plug the other end into the ZEUS FPIF board connector J1.

5   On the ZEUS FPIF board, JP1 must have a link present in position A.

6   Plug the large connector on the LCD cable into the ZEUS FPIF board connector J2. Plug the D-shaped connector into the LCD panel and the smaller cable into the backlight inverter board connector CN1.

7   Plug the two remaining cables from the LCD into the backlight inverter board connectors CN2 and CN3.

8   Plug the 4-wire ribbon cable into the TITAN connector J5.

9   Plug the other end of the 4-wire cable into the touchscreen.

> Pin 1 is marked on the touchscreen with an arrow. The 4-wire ribbon cable must be oriented so that the brown wire is connected to pin 1.

10   Fit the TITAN power supply cable to the power input J15.

11   Plug in the power supply. The Windows CE desktop appears after about 15 seconds.

The following diagram shows the recommended connections for use with an LCD and touchscreen:

Appendix A - Contacting Eurotech

Eurotech sales

Eurotech's sales team is always available to assist you in choosing the board that best meets your requirements.

Eurotech Ltd
3 Clifton Court
Cambridge
CB1 7BN
UK

Tel: +44 (0)1223 403410

Fax: +44 (0)1223 410457

Email: sales@eurotech-ltd.co.uk

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Tel: +44 (0)1223 412428
Fax: +44 (0)1223 410457
Email: support@eurotech-ltd.co.uk

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Attachment A

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