

PN Number 106 Revision 2

## TITAN V1I1 to V2I1 design change notification

<b>Issue Date:</b>	27th July 2012	<b>Circulation:</b>	General
<b>Board Version:</b>	2	<b>Board Issue:</b>	1
<b>ECO Reference:</b>	3777	<b>MODBOX:</b>	NA

### Notice:

#### Summary

This product notice is to highlight the functional differences between the TITAN V1I1 and V2I1.

#### Issues or Problems the user may experience

Old customer generated images will not work with the TITAN V2I1. Please refer to software compatibility issues between TITAN V1I1 and V2I1 below.

#### User Implications

Hardware changes will affect customer generated software images.

### Change Details and Other Information

#### Functionally compatible component changes used for TITAN V2I1

- The Davicom DM9000 Ethernet controller used on the TITAN V1I1 has been replaced by an SMSC LAN9221i.
- The Spansion S29GL256P11FFIR1 Flash used on the TITAN V1I1 has been replaced by a S29GL256S11DHI010.

#### New functionality for TITAN V2I1

- A new backlight control connector, J16 has been added to simplify backlight inverter / LED driver cabling.
- A 5V supply voltage monitor has been added to reset the TITAN if the VCC input falls below 4.4V. The V1I1 TITAN only monitored the 3.3V supply which allowed the TITAN to be powered below 4.4V.
- The updated Windows CE and Linux kernel images for the V2i1 TITAN now support SDHC (>2GB) cards. Please note that as with some manufacturers SD card implementations, not every SHDC card will work. Please contact Eurotech for recommendations if you have difficulty sourcing a suitable card.

#### Software compatibility issues between TITAN V1I1 and V2I1

- At an user level, applications built for the V1I1 TITAN will typically run without modification on the V2i1 TITAN since the key hardware differences are abstracted by the OS driver modules
- Updates have been made to Redboot, the Linux Kernel and Windows CE and its boot loader to support the new S29GL256S11DHI01 Spansion flash and SMSC LAN9221i Ethernet controller. This means that images created for the V1i1 TITAN board will not run on a V2i1 board. Users who load their own custom images should migrate to use the V2i1 TITAN base images for Linux and Windows CE.
- The Linux kernel has been updated from 2.6.20.18 as used on the V1i1 TITAN to 2.6.35.9 for the V2i1 TITAN. Customers who have developed their own kernel drivers will need to rebuild against the later kernel.

### Mechanical differences between TITAN V111 and V211

- A new backlight control connector, J16 has been added to simplify backlight inverter / LED driver cabling. This is located near to the LCD connector J4 and fitted with a Molex 53047-0710, 7-way, 1.25mm pitch vertical shrouded header.
- The JTAG connector, J9 has been reduced in size and located in a similar position on the board. It is now fitted with a Samtec FTMH-105-02-F-DV-TR, 2 x 5 way, 1mm pitch vertical unshrouded header. An adapter board to convert from the new connector to the older style is available on request.

### Product List

V111		V211	
Order number	Model name	Order number	Model name
6570-00703-001-101	TITAN-M64-F32-HUSB-R6	6570-00703-001-201	TITAN_V2-M64-F32-HUSB-R6
6570-00703-101-101	TITAN-M64-F32-VUSB-R6	6570-00703-002-201	TITAN_V2-M64-F32-I-HUSB-R6
6570-00703-003-101	TITAN-LITE-M64-F16-HUSB-R6	6570-00703-003-201	TITAN-LITE-M64-F16-HUSB-R6
6570-00703-004-101	TITAN-LITE-M64-F16-I-HUSB-R6	6570-00703-004-201	TITAN-LITE-M64-F16-I-HUSB-R6
6571-00703-004-101	TITAN-LITE-M128-F64-I-HUSB-R6	6571-00703-004-201	TITAN-LITE-M128-F64-I-HUSB-R6

We sincerely apologise for any inconvenience this may cause you and your end users.

If you have any questions about this please contact Eurotech Technical support.