

Future Technology Devices International Ltd.

TN_118 Vinculum-II Errata Technical Note

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Version 1.0

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The intention of this errata technical note is to give a detailed description of known functional or electrical issues with the FTDI Vinculum-II (VNC2) devices.

Each deviation is assigned a number and its history is tracked in a table at the beginning of the document.

Future Technology Devices International Limited (FTDI)

Unit1, 2 Seaward Place, Centurion Business Park, Glasgow G41 1HH United Kingdom

Tel.: +44 (0) 141 429 2777 Fax: + 44 (0) 141 429 2758

E-Mail (Support): support1@ftdichip.com Web: <http://www.ftdichip.com>

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1 Errata History Table – Functional Problems

Functional Problem	Short description	Errata occurs in device revision
VNC2_SPI 1.00	Incorrect data transmission in SPI Modes	A

1.1 Errata History Table – Electrical and Timming Specification Deviations.

Deviations	Short description	Errata occurs in device revision

2 Functional Problems of VNC2

VNC2 SPI 1.00 – Incorrect data transmission in SPI Modes

Introduction:

VNC2 can be configured to operate in multiple SPI modes.

Problem:

The following SPI Slave modes do not function correctly and result in incorrect data transmission: Full Duplex, Half Duplex, Half Duplex 3 pin, Unmanaged and VNC1L Legacy.

Workaround:

There are no known workarounds available. This issue will be corrected at silicon revision B.

Package specific:

The effected packages are listed in **Table 1**.

Package	Applicable (Yes/No)
VNC2-64L1A	Y
VNC2-64Q1A	Y
VNC2-48L1A	Y
VNC2-48Q1A	Y
VNC2-32L1A	Y
VNC2-32Q1A	Y

Table 1

2.1.1 Electrical and Timing specification deviations of VNC2

At the time of writing this technical note, there are no know electrical or timing issues with the VNC2 devices.

3 VNC2 Package Markings

VNC2 is available in six RoHS Compliant packages, three QFN packages (64QFN, 48QFN & 32QFN) and three LQFP packages (64LQFP, 48LQFP & 32LQFP). An example of the markings on each package is shown in **Figure 3-1**. The FTDI part number is too long for the 32 QFN package so in this case the last two digits are wrapped down onto the date code line as shown in **Figure 3-2**.

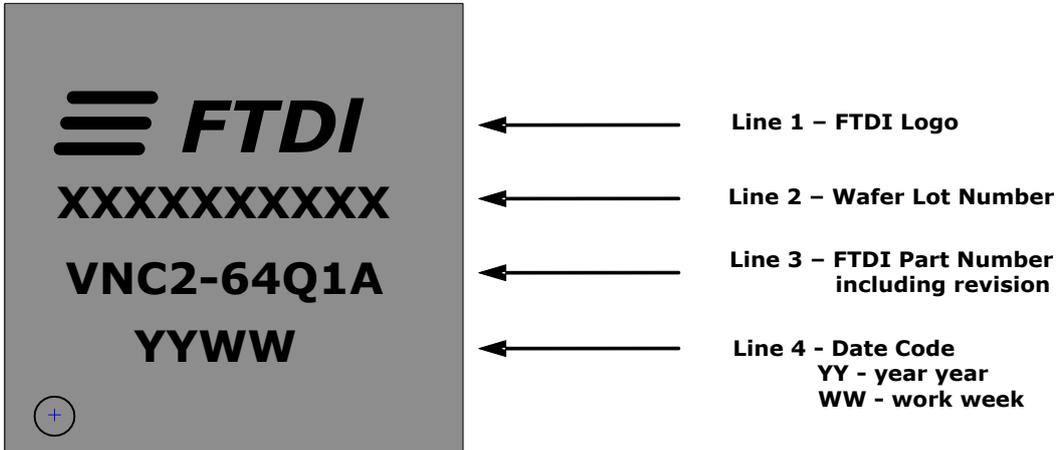


Figure 3-1 Package Markings



Figure 3-2 Markings – 32 QFN

3.1 VNC2 Revision

VNC2 part numbers are listed in **Table 2**. The letter at the end of the part number identifies the device revision (highlighted in bold).

Part Number	Package
VNC2-64L1 A	64 Pin LQFP
VNC2-64Q1 A	64 Pin QFN
VNC2-48L1 A	48 Pin LQFP
VNC2-48Q1 A	48 Pin QFN
VNC2-32L1 A	32 Pin LQFP
VNC2-32Q1 A	32 Pin QFN

Table 2 VNC2 Part Numbers

This errata technical note covers the revisions of VNC2 listed in **Table 3**.

Revision	Notes
A	First device revision

Table 3 VNC2 Revisions

4 Contact Information

Head Office – Glasgow, UK

Future Technology Devices International Limited
Unit 1, 2 Seaward Place, Centurion Business Park
Glasgow G41 1HH
United Kingdom

Tel: +44 (0) 141 429 2777
Fax: +44 (0) 141 429 2758

E-mail (Sales) sales1@ftdichip.com
E-mail (Support) support1@ftdichip.com
E-mail (General Enquiries) admin1@ftdichip.com
Web Site URL <http://www.ftdichip.com>
Web Shop URL <http://www.ftdichip.com>

Branch Office – Taipei, Taiwan

Future Technology Devices International Limited (Taiwan)
2F, No 516, Sec. 1 NeiHu Road
Taipei 114
Taiwan, R.O.C.
Tel: +886 (0) 2 8797 1330
Fax: +886 (0) 2 8751 9737

E-mail (Sales) tw.sales1@ftdichip.com
E-mail (Support) tw.support1@ftdichip.com
E-mail (General Enquiries) tw.admin1@ftdichip.com
Web Site URL <http://www.ftdichip.com>

Branch Office – Hillsboro, Oregon, USA

Future Technology Devices International Limited (USA)
7235 NW Evergreen Parkway, Suite 600
Hillsboro, OR 97123-5803
USA
Tel: +1 (503) 547 0988
Fax: +1 (503) 547 0987

E-Mail (Sales) us.sales@ftdichip.com
E-Mail (Support) us.support@ftdichip.com
E-Mail (General Enquiries) us.admin@ftdichip.com
Web Site URL <http://www.ftdichip.com>

Branch Office – Shanghai, China

Future Technology Devices International Limited (China)
Room 408, 317 Xianxia Road,
ChangNing District,
ShangHai, China

Tel: +86 (21) 62351596
Fax: +86(21) 62351595

E-Mail (Sales): cn.sales@ftdichip.com
E-Mail (Support): cn.support@ftdichip.com
E-Mail (General Enquiries): cn.admin1@ftdichip.com
Web Site URL: <http://www.ftdichip.com>

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Appendix C – Revision History

Version Draft	First Draft	19/02/2010
Version 1.0	First Release	23/02/2010