

AN11133

PTN3460 FoA (Flash-over-AUX) utility user's guide

Rev. 1 — 15 December 2011

Application note

Document information

Info	Content
Keywords	DisplayPort, PTN3460, DP to LVDS Bridge
Abstract	This document describes the PTN3460 FoA utility operations.



Revision history

Rev	Date	Description
v.1	20111215	application note; initial version

Contact information

For more information, please visit: <http://www.nxp.com>

For sales office addresses, please send an email to: salesaddresses@nxp.com

1. Introduction

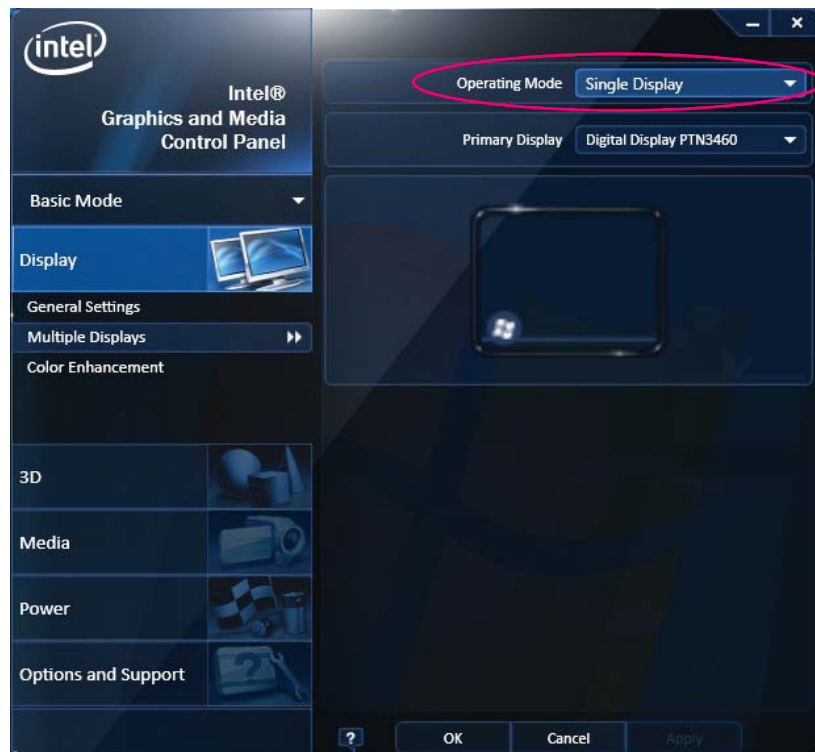
PTN3460BS FoA firmware v0.7 updater (PTN3460_0.7.exe) is a PC utility that provides 'Flash-over-AUX' capability to enable firmware upgrade in the field. PTN3460BS FoA firmware v0.7 updater upgrades all of the previous firmware versions to version 0.7 into PTN3460BS on NXP eDP to LVDS bridge application board or customer's motherboard.

This user guide is mainly focused on the operation of PTN3460BS FoA firmware v0.7 updater. In the operation section, it uses the actual operation panel to guide user step-by-step. The details of each function are explained and listed in order.

PTN3460BS FoA firmware v0.7 updater supports Windows7, XP and Vista operation system in all platforms. Please install the latest version of graphics card driver before the start of running firmware updater.

2. Operation

1. Connect an LCD panel to LVDS connector on PTN3460 eDP to LVDS bridge application board, and then plug in a DP cable between PTN3460 eDP to LVDS bridge application board and a DisplayPort source with Windows 7, XP or Vista OS.
2. Use control panel of graphics utility to select 'Single Display', as shown below.



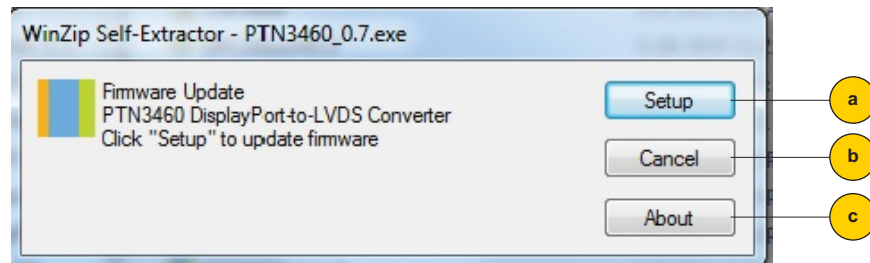
019aac676

3. Select the primary (main) display as 'Digital Display PTN3460', as shown below.



019aac677

4. Click the PTN3460BS FoA firmware v0.7 updater (PTN3460_0.7.exe) icon, the following control panel will pop up.



019aac678

- Use 'Setup' button to start updating firmware V0.7 into PTN3460BS in NXP PTN3460 eDP to LVDS bridge application board.
- Use 'Cancel' button to close the program.
- Use 'About' button to read details about the PTN3460BS FoA firmware v0.7 updater.

5. After clicking the 'Setup' button, it starts to flash the firmware V0.7 into PTN3460 on NXP eDP to LVDS bridge application board.



019aac679

6. It shows '*** FINISHED ***' after firmware upgrade is done.



019aac680

3. Abbreviations

Table 1. Abbreviations

Acronym	Description
DP	DisplayPort
eDP	embedded DisplayPort
FoA	Flash-over-AUX
LCD	Liquid Crystal Display
LVDS	Low-Voltage Differential Signaling
OS	Operating System

4. Legal information

4.1 Definitions

Draft — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. NXP Semiconductors does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

4.2 Disclaimers

Limited warranty and liability — Information in this document is believed to be accurate and reliable. However, NXP Semiconductors does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. NXP Semiconductors takes no responsibility for the content in this document if provided by an information source outside of NXP Semiconductors.

In no event shall NXP Semiconductors be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, NXP Semiconductors' aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the *Terms and conditions of commercial sale* of NXP Semiconductors.

Right to make changes — NXP Semiconductors reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

Suitability for use — NXP Semiconductors products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of an NXP Semiconductors product can reasonably be expected

to result in personal injury, death or severe property or environmental damage. NXP Semiconductors and its suppliers accept no liability for inclusion and/or use of NXP Semiconductors products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Applications — Applications that are described herein for any of these products are for illustrative purposes only. NXP Semiconductors makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

Customers are responsible for the design and operation of their applications and products using NXP Semiconductors products, and NXP Semiconductors accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the NXP Semiconductors product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products.

NXP Semiconductors does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using NXP Semiconductors products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). NXP does not accept any liability in this respect.

Export control — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

Translations — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

4.3 Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

5. Contents

1 Introduction 3

2 Operation 3

3 Abbreviations..... 5

4 Legal information..... 6

4.1 Definitions..... 6

4.2 Disclaimers..... 6

4.3 Trademarks..... 6

5 Contents 7

Please be aware that important notices concerning this document and the product(s) described herein, have been included in section 'Legal information'.