

Innovative Technology Technical Bulletin

November 2015

For more information contact support@innovative-technology.com

IN THIS ISSUE:

- €20 NOTE
- PRODUCT CHANGE NOTIFICATIONS
- INNOVATIVE TECHNOLOGY WEBSITE REFRESH
- WEBSHOP

New €20 note release

The new issue €20 note enters circulation on Wednesday 25th November.

We updated all Euro and Euro mixed currency dataset files over the summer to include the new issue €20 banknote, allowing sufficient time to update. If you have not yet updated all of your validators in the field, currency dataset files are free to download from our website within the [Support/ Currency Download](#) section. The easiest way to update is via the DA3 SMART Update Tool - €20 which is available to buy online at our webshop [here](#).

NB: The new issue €20 note has been included in all new sales order since 27/08/15 - units bought directly from ITL since then do not require updating.



Product	BV20	BV50	BV100	NV9 USB / NV11	NV10 USB	NV150	NV200 / SP / ST	SMART Hopper
Firmware Revision	4.16	4.13	4.16	3.59	3.37	1.03	4.28	6.25



Innovative Technology

INTELLIGENCE IN VALIDATION

www.innovative-technology.com

Innovative Technology Technical Bulletin

November 2015

For more information contact support@innovative-technology.com

Product change notifications

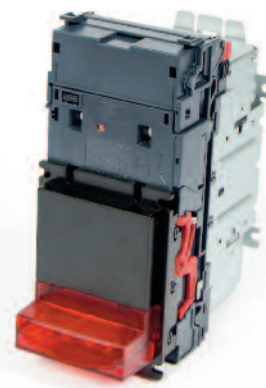
As a result of continuous product development, changes have been made to the SMART Hopper and NV9 USB+ models. The full change notes can be found at the end of the bulletin but details are as outlined below.

SMART Hopper - revision 21

The unit remains largely the same, however, the flap (PM00479) has been modified with the addition of two locating pins added to either side and the lift path plastic (PM00481_3) has also been modified with holes, to be able to accommodate the new pins. Please refer to the PCN document for illustrations of these highlighted changes. These changes can be identified by checking the product label on the back of the unit - the SMART Hopper revision number has been incremented to 21.

NV9 USB+ microprocessor

The NV9 USB+ microprocessor has been upgraded to an ARM STM32F302 chip (as the old chip has become obsolete). All NV9 USB+ units in current production will include the new chip. Units with the new microprocessor can be identified by the label which now has a red surround. The chip change is not anticipated to affect the product's function or its technical requirements. The NV9 USB+ microprocessor will have its validator type referenced in the dataset name indicated by an F eg. EUR02F. Please see the product change notification for further details.



Software Product	DA3	DPS	Validator Manager	SMART PIPS	NV Card Utilities	ITL Drivers	DA3 SMART Update - €20
Software Revision	1.15	1.1.5	4.3.3 206	2.3.1	1.8.4	2.1	2.0.4



Innovative Technology

INTELLIGENCE IN VALIDATION

www.innovative-technology.com

Innovative Technology Technical Bulletin

November 2015

For more information contact support@innovative-technology.com

Innovative Technology Website Refresh

Due to the need for responsive performance across all communication platforms, our website has been refreshed to offer a superior interactive experience for those browsing on smartphones and tablets, as well as PCs.

We can now be found at www.innovative-technology.com



Validators now available through webshop

We're excited to announce that our entire range of validators, recyclers and ticketing products are now available for purchase through our webshop. Our online platform is the easiest way to order validators if you only require small quantities, if you've never bought from us before or if you have a pro-forma account. The webshop also carries a number of other items including programming kits, cables and various spare parts.

Purchase online!



Innovative Technology

INTELLIGENCE IN VALIDATION

www.innovative-technology.com

Innovative Technology Limited

Product Change Notification

Product: SMART Hopper 3

PCN Issue Date		24/09/2015	
Notification Classification	➤ Mechanical	✓	
	➤ Electrical		
	➤ Electronic		
	➤ Firmware		
Modification Introduction Date		Q3 2015	
Product Build Revision	Revision 21	Document Author	Dan Humble

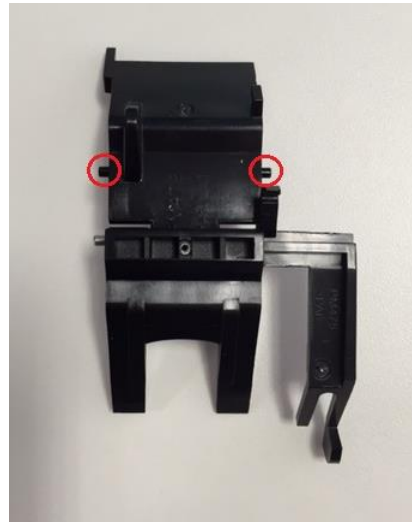
1.0 Description of change

Payout Flap

The SMART Hopper payout flap (PM00479) has changed by having two locating pins added to either side. Images below show the differences between the old and new plastics. The lift path plastic (PM00481_3) has also had holes added, to be able to accommodate these new pins.



Rev 1



Rev 2 –
*Rev number can be found
on the reverse of the
part.*

Innovative Technology Limited

Product Change Notification

Disk Pins

The disk pins have also changed to match those found in the SMART Coin System (MC00282).



Old



New

1.1 Reason(s) for change

The payout flap changes are for continuous product improvement.

MC00282 have been changed to the same as the SMART Coin System pins due to these being stronger and more durable.

1.2 Anticipated impact on function, compatibility and reliability.

There is no anticipated impact on function or compatibility, however the overall reliability of the SMART Hopper will increase.

1.3 Product identification

Identification of these changes can be made by checking the product label on the back of the unit. The SMART Hopper revision number has been incremented to 21.



Innovative Technology Limited

Product Change Notification

Product: NV9USB+ (PB02030)

PCN Issue Date		2/10/2015	
Notification Classification	➤ Mechanical		
	➤ Electrical		
	➤ Electronic	✓	
	➤ Firmware		
Modification Introduction Date		Q3 2015	
Product Build Revision	Revision 1	Document Author	Russell Stellman

1.0 Description of change

The NV9USB+ microprocessor has been changed to an ARM STM32F302 chip.



1.1 Reason for change

The new chip has been implemented as the old chip has become obsolete. This new chip will be implemented in the current production of the NV9 USB+.

1.2 Anticipated impact on function, compatibility and reliability.

The NV9 USB+ function and technical requirements won't change. The new NV9 USB+ will however require a different firmware which will be present in the dataset name (see 1.3 Dataset Code).

Innovative Technology Limited

Product Change Notification

1.3 Product identification

The product can be identified using the following aesthetic changes:

Label: the NV9 USB+ units that have the ST processor will have a label with a red border.



Dataset Code: The NV9 USB+ with ST chip will have its own 'validator type' referenced in the dataset name (see below):

NV9USB+ (with ST chip): EUR02F29

NV9USB: EUR02B29

NV9USB+: EUR02E29

Different Chips: See (figure 1) for the visual differences between chips.

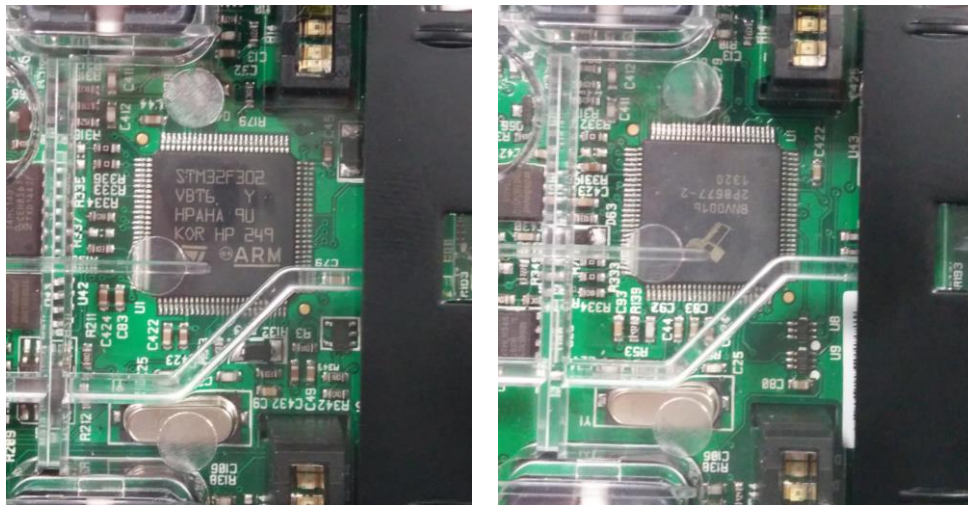


Figure 1: Comparison between the ST chip (left) and the old ASIC chip (right).

PCB: The upper note path PCB also has NV9 USB+ V2 noted on the rear.



Innovative Technology Limited

Product Change Notification

1.4 Programming Options

Validator Manager:

Any version of Validator Manager, newer than 4.3.3.206, will have full compatibility with the ST NV9 USB+. The latest version can be found in the link below:

<https://www.dropbox.com/sh/y0az5fmt1qwdn01/AADOb2NhtF3glYnJ5EXg4HV5a?dl=0>

DA3

Firmware version 1.16 or above is required.

DPS

To coincide with the release of the new DA3 firmware (1.16) there has been an update to the Device Programming System (DPS) and is now version 1.1.6. The latest version can be found below.

https://www.dropbox.com/sh/hrqs98dnxci9bwj/AAAz2nEle552YS_pCaKmnvJra?dl=0

If you experience any problems, or require any additional information, please contact us at:

support@innovative-technology.com