

Product Change Notification (PCN)

Transition from

Viola V1.1 to Viola V1.2 and Viola Plus V1.2

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1. Toradex Product Numbers Affected

EOL Product		Replacement Product	
Part Number	Product Name	Part Number	Product Name
01371100	Viola V1.1A	01371200	Viola V1.2A
-	-	01421200	Viola Plus V1.2A (Product Introduction)

2. Product Phase in / Phase out Schedule

Supplies of the discontinued product are limited. All orders will be filled on a first-come, first-served basis until our inventory is depleted.

EOL Product		Replacement Product	
Part Number	Estimated Schedule	Part Number	Estimated Schedule
01371100	Product will be sold until inventory is depleted.	01371200	Sample Production: Mid Februar 2016 Volume Production: Q2 2016
-	-	01421200	Sample Production: Mid Februar 2016 Volume Production: Q2 2016

Customers are strongly encouraged to convert their designs to the replacement parts listed above. Toradex also advises customers to carefully validate the new product version before their production release.

3. Description of Changes

We changed from Viola V1.1A to V1.2A due to one hardware problem and some feature additions based on customer feedback. Furthermore, we introduced a new product, Viola Plus V1.2A. This additional product has even more features available. You can find the overview in the table below. Please refer to the Viola V1.2A datasheet for details (<http://docs.toradex.com/102879-colibri-arm-viola-carrier-board-datasheet.pdf>)

NA - Not available
 ✓ - Assembled
 ✗ - Not Assembled

Interface	Viola V1.1A	Viola V1.2A	Viola Plus V1.2A	Remarks
Ethernet (X5)	✓	✓	✓	On Viola V1.2 PCB we fixed the swapped Ethernet TX + and – signals. We never saw any problems on V1.1 products though.
USB Client (X6, Micro-AB)	✗	✗	✓	Shared with USB Host (X4, Bottom)
Extension Connector (X9)	✓	✗	✓	Pinout is compatible across versions.
Audio Connector (X10)	NA	✗	✓	On Viola V1.2 PCB, Audio connector has been added. Please note that, this is a module specific feature and may not be supported by all the computer-on-modules in the Colibri family. For more details, refer to the datasheet of the Colibri computer-on-modules.
Colibri VFxx Tamper Connector (X11)	NA	✗	✗	Available on the bottom side of the Viola V1.2 PCB.
Barrel Power Supply Connector (X2)	✗	✗	✓	On Viola V1.2 PCB, the connector has been moved out (about 2 mm) from the board edge similar to the Ethernet and USB Host connectors.
Battery Holder (BAT1)	✗	✓	✓	Can be used to provide backup power to internal or external RTC based on the PCB assembly.
External RTC	✗	✗	✓	On Viola V1.2 PCB, RTC power circuit has been modified.
Parallel Camera Interface Signals	NA	✗	✓	Parallel Camera Interface signals are available on the connectors X9 and X10. Please note that, this is a module specific feature and may not be supported by all the computer-on-modules in the Colibri family. For more details, refer to the datasheet of the Colibri computer-on-modules.
Wide Input Voltage (+5V to +22V DC)	✗	✓	✓	It is recommended to use 5V +/-0.25V DC power supply to power-up the Viola carrier board. Wide input voltage can be used with Viola V1.2 and Viola V1.2 Plus, under specific assembly conditions. For more details, refer to the datasheet of the Viola V1.2 carrier board.
Power Supply (on board DC/DC Converter)	AP6502, 2A (max)	AP6503, 3A (max)	AP6503, 3A (max)	Changed 5V to 3.3V DC/DC converter on Viola which provides higher current rating.
LED Indication	5V active	3.3V active	3.3V active	On Viola V1.1A the LED indicated the availability of 5V. On Viola V1.2A we indicate the availability of the 3.3V voltage.

4. Customer Impact

4.1. Hardware Design

Please check your existing hardware design using Viola V1.1A in detail about compatibility to the new Viola V1.2A.

4.2. Software

Please check your existing software design against the changes from Viola V1.1A to V1.2A.

5. Contact

Please contact Toradex if you have any questions.

For commercial and sales questions please contact shop@toradex.com

For technical questions please contact support.arm@toradex.com