

Information Note

Topic JODY-W1 series – Host interface
UBX-18021220

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1 Affected Products

Product Name	Order Number	Type Number	Change
JODY-W164-A	JODY-W164-03A	JODY-W164-03A-01	SDIO host interface cannot be supported, PCIe host interface is supported
JODY-W164-A	JODY-W164-04A	JODY-W164-04A-00	SDIO host interface cannot be supported, PCIe host interface is supported
JODY-W164-A	JODY-W164-05A	JODY-W164-05A-00	SDIO host interface cannot be supported, PCIe host interface is supported
JODY-W164-A	JODY-W164-07A	JODY-W164-07A-00	PCIe host interface cannot be supported, SDIO host interface is supported
JODY-W167-A	JODY-W167-00A	JODY-W167-00A-00	SDIO host interface cannot be supported, PCIe host interface is supported
JODY-W167-A	JODY-W167-03A	JODY-W167-03A-00	SDIO host interface cannot be supported, PCIe host interface is supported

2 Type of Change

- Hardware modification
- Firmware update
- Documentation update
- Others: limitation on supported host-interface

3 Description of Changes

3.1 Host Interface firmware limitation – description

The Wi-Fi/Bluetooth chip used in the modules mentioned above is listed below:

- Cypress BCM89359 - used in JODY-W164-03A, JODY-W164-04A, JODY-W167-03A
- Cypress BCM88359 - used in JODY-W164-05A, JODY-W164-07A, JODY-W167-00A

Cypress, the manufacturer of the chip used in the JODY-W1 modules has informed u-blox about a limitation in the chip firmware:

1. It is not possible to support both PCIe and SDIO host interfaces with a single product variant.
2. The reason - The firmware reads parameters from One-Time-Programmable memory (OTP) of the chip. This set of parameters is different for SDIO and PCIe host interfaces.

3. Therefore, only a single host interface, either PCIe or SDIO can be supported with a set of parameters programmed in the OTP of the chip.
4. The result is that a single type number of JODY-W1 modules can support only one host interface, either PCIe or SDIO.

3.2 Description of the change

u-blox is changing the modules such that a single type number supports either PCIe or SDIO host interface.

The supported host interfaces for different type numbers are described in section 1.

3.3 Documentation updates

The following documents (either new or updated version) will be updated by June 30, 2018:

- Data Sheet [1]
- System Integration Manual [2]
- Product Summary [3]

4 Schedule

Engineering Samples are now available for shipment for the following modules:

- JODY-W164-03A
- JODY-W164-07A
- JODY-W167-03A

Samples for other type-number will be available upon request.

5 Customer Impact and Recommended Action

1. All customers are required to update the documents they have with the new version. Please go through the revision history of the updated documents to know the changes.
2. Customers using PCIe host-interface are not required to do any changes in their design (Exception: JODY-W164-07A – see below).
3. Customers using SDIO host-interface in their design, need to migrate to the following part numbers:

Order Number	Migrate to new Order Number	Remarks / Changes
JODY-W164-04A	JODY-W163-04A	JODY-W163: SDIO host interface supported, PCIe host interface not supported
JODY-W164-05A	JODY-W163-05A	JODY-W163: SDIO host interface supported, PCIe host interface not supported

4. Customers using JODY-W164-07A with a PCIe host-interface are requested to contact u-blox support.
5. Customers using JODY-W164-00A or JODY-W164-13A with either a PCIe or an SDIO host interface are requested to contact u-blox support.

5.1 Availability of JODY-W163-04A and JODY-W163-05A

Engineering Samples will be available during August 2018.

6 Reference Documents

- [1] Data Sheet: JODY-W1_DataSheet_(UBX-16013635)_Confidential
- [2] System Integration Manual: JODY-W1_SIM_(UBX-16012621)_Confidential
- [3] Product Summary: JODY-W1_ProductSummary_(UBX-16008613)

7 Restrictions

Limitations / restrictions for the Engineering Samples:

- Samples are intended for test purposes only.
- They should not be used for product qualification.
- Type approvals are not completed.