



## Product Change Notification / SYST-13CWOB488

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### Date:

15-Jul-2021

### Product Category:

USB Hubs

### PCN Type:

Document Change

### Notification Subject:

Data Sheet - USB5906 - 6-Port USB 3.2 Gen 1 SmartHub IC with Support for a Single USB Type-C UFP  
Data Sheet Document Revision

### Affected CPNs:

[SYST-13CWOB488\\_Affected\\_CPN\\_07152021.pdf](#)  
[SYST-13CWOB488\\_Affected\\_CPN\\_07152021.csv](#)

### Notification Text:

SYST-13CWOB488

Microchip has released a new Product Documents for the USB5906 - 6-Port USB 3.2 Gen 1 SmartHub IC with Support for a Single USB Type-C UFP of devices. If you are using one of these devices please read the document located at [USB5906 - 6-Port USB 3.2 Gen 1 SmartHub IC with Support for a Single USB Type-C UFP](#).

**Notification Status:** Final

#### Description of Change:

- 1) Title on cover: Updated title by adding "SmartHub™ IC"
- 2) Figure 8-1, Figure 8-2, Figure 8-3
  - (a) Updated figures
  - (b) Updated USB 3.1 to USB 3.2 throughout the document.

3) Table 10-3

(a) Updated Power Numbers: Reset, No VBUS and Global Suspend

4) Cover

(a) Added new Highlight bullet/sub-bullets regarding USB-IF ECN support (Revision C or newer only).

(b) Added sub-bullet under PHYBoost: "USBv2.0 Hi-Speed disconnect threshold adjustv(Revision C or newer only)"

5) Section 1.2, Reference Documents: Updated USB specification reference.

6) Section 3.0, Pin Descriptions:

(a) Removed GPIO10 and GPIO72 from pins 21 and 22. Replaced with NC (No Connect).

(b) Removed GPIO16 from pin 24.

7) Section 9.0, Compliance Update Added new compliance update section.

8) Section 10.1, Absolute Maximum Ratings\*: Updated HBM ESD Performance to 2.5 kV

9) Product Identification System

(a) Added "C" to part number ordering codes/examples.

(b) Added note 2: Devices prior to silicon revision C do not include upgrades described in Chapter 9: Compliance

Updates.

(c) Added direction of unreeling diagram

10) Section 8.7.2.1, Enabling Port Splitting, Table 8-7

(a) Updated procedure with additional step to set the global Port Split enable bit in the Global Port Split Enable Register.

(b) Added Global Port Split Enable Register definition.

**Impacts to Data Sheet:** None

**Reason for Change:** To Improve Productivity

**Change Implementation Status:** Complete

**Date Document Changes Effective:** 15 Jul 2021

**NOTE:** Please be advised that this is a change to the document only the product has not been changed.

**Markings to Distinguish Revised from Unrevised Devices:** N/A

## Attachments:

USB5906 - 6-Port USB 3.2 Gen 1 SmartHub IC with Support for a Single USB Type-C UFP

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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Affected Catalog Part Numbers (CPN)

USB5906-I/KD

USB5906/KD

USB5906C-I/KD

USB5906C/KD

USB5906CT-I/KD

USB5906CT/KD

USB5906T-I/KD

USB5906T/KD