MICROCHIP

Product Change Notification / SYST-13TQHB160

Date:

15-Jul-2021

Product Category:

USB Hubs

PCN Type:

Document Change

Notification Subject:

Data Sheet - USB5916 - 6-Port USB 3.2 Gen 1 SmartHub with Support for a USB Type-C UFP and DFP Data Sheet Document Revision

Affected CPNs:

SYST-13TQHB160_Affected_CPN_07152021.pdf
SYST-13TQHB160_Affected_CPN_07152021.csv

Notification Text:

SYST-13TQHB160

Microchip has released a new Product Documents for the USB5916 - 6-Port USB 3.2 Gen 1 SmartHub with Support for a USB Type-C UFP and DFP of devices. If you are using one of these devices please read the document located at USB5916 - 6-Port USB 3.2 Gen 1 SmartHub with Support for a USB Type-C UFP and DFP.

Notification Status: Final

Description of Change:

1) Figure 8-1, Figure 8-2, Figure 8-3, Figure 8-4, Figure 8-5:

   (a) Updated figures

   (b) Updated USB 3.1 to USB 3.2 throughout the document.

2) Table 10-3 • Updated Power Numbers: Reset, No VBUS and Global Suspend

3) Cover:

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

    (b) Added sub-bullet under PHYBoost: "USB 2.0 Hi-Speed disconnect threshold adjust (Revision C or newer only)"

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

5) 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.

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

7) Section 10.1, Absolute Maximum Ratings*:

    (a) Updated HBM ESD Performance to 2.5 kV

8) 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

9) 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:

Please contact your local Microchip sales office with questions or concerns regarding this notification.

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Affected Catalog Part Numbers (CPN)

USB5916-I/KD
USB5916/KD
USB5916C-I/KD
USB5916C/KD
USB5916CT-I/KD
USB5916CT/KD
USB5916T-I/KD
USB5916T/KD