

## Product Change Notification - SYST-15GWWE121

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**Date:**

16 Jul 2019

**Product Category:**

Ethernet Switches

**Affected CPNs:****Notification subject:**

Data Sheet - KSZ9477S 7-Port Gigabit Ethernet Switch with Ring Redundancy, SGMII and RGMII/MI Data Sheet Document Revision

**Notification text:**

SYST-15GWWE121

Microchip has released a new DeviceDoc for the KSZ9477S 7-Port Gigabit Ethernet Switch with Ring Redundancy, SGMII and RGMII/MI of devices. If you are using one of these devices please read the document located at [KSZ9477S 7-Port Gigabit Ethernet Switch with Ring Redundancy, SGMII and RGMII/MI](#).

**Notification Status:** Final**Description of Change:**

- 1) Table 4-15, Transmit Tail Tag Format (from Host to Switch): Bit 7 changed to 15:00, description changed to Reserved.
- 2) Section 5.5.1, SGMII Control Register: Bit 12, Auto-Negotiation Enable - Applies to the SGMII Mode Port only
- 3) Section 2.1, General Description, on page 8: Updated first bullet to indicate the non-blocking wire-speed Ethernet switch fabric supports 1 Gbps on RGMII.
- 4) Table 3-1, Table 3-2, Table 3-3: Updated INTRP\_N and SYNCLKO pin listings to indicate configuration strap functions.
- 5) Section 4.1.5, Pair-Swap, Alignment, and Polarity Check, on page 22: Updated first bullet description.
- 6) Section 4.3.3, Back-Off Algorithm, on page 29: Updated second sentence.
- 7) Section 4.3.5, Legal Packet Size," on page 29: Simplified paragraph for clarity.
- 8) Section 4.3.6, Flow Control, on page 29: Simplified last sentence of third paragraph.
- 9) Table 4-11, Hashed(SA)+FID Lookup in VLAN Mode: Updated Action description for the Yes entry.
- 10) Section 4.4.3.2.1, Tag Insertion and Removal, on page 37: Updated last paragraph of section.
- 11) Section 4.4.8, Multiple Spanning Tree Support, on page 41: Updated second sentence.
- 12) Table 4-18, ACL Matching Rule Parameters for MD = 01: Corrected ENB[1:0] 01 and 10 definitions to match those in Table 4-17, Matching Rule Options.
- 12) Section 4.6, IEEE 1588 Precision Time Protocol, on page 54: Added additional paragraph to end of section.
- 13) Section 4.13, In-Band Management, on page 65:
  - a) Added to last sentence of first paragraph.
  - b) Added additional sentence to end of second paragraph.
  - c) Added additional sentence to end of sixth paragraph.
- 14) Section 5.1.6.17, Timestamp Control and Status Register, on page 130: Updated bit 6 definition.
- 15) Section 5.2.1.7, Port Operation Control 0 Register, on page 155: Updated bit 6 and 7 descriptions to include references to the MAC and additional clarification.
- 16) Section 5.2.2.15, PHY Remote Loopback Register, on page 167: Simplified bit 8 description.
- 17) Section 5.2.3, Port N: Port SGMII Control Registers (0xN200 - 0xN2FF), on page 172: Added new note to end of section.
- 18) Section 5.2.5.1, Port MAC Control 0 Register, on page 175: Bit 0 made reserved.
- 19) Section 6.4.8, Power-up and Reset Timing:
  - a) Updated Note 1.
  - b) Updated Figure 6-13 to include SGMII power supplies (VDDHS, VDDL5).



21) Table 6-12: Added new trw entry to table.

**Impacts to Data Sheet:** None

**Reason for Change:** To Improve Manufacturability

**Change Implementation Status:** Complete

**Date Document Changes Effective:** 16 July 2019

**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

**Attachment(s):**

[KSZ9477S 7-Port Gigabit Ethernet Switch with Ring Redundancy, SGMII and RGMII/MI](#)

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Affected Catalog Part Numbers (CPN)

KSZ9477STXI

KSZ9477STXI-TR