

Product Change Notification - SYST-27MOSW029

Date:

30 Nov 2018

Product Category:

Ethernet Switches

Affected CPNs:

7

Notification subject:

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

Notification text:

SYST-27MOSW029 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 <u>KSZ9477S 7-Port Gigabit Ethernet</u> <u>Switch with Ring Redundancy, SGMII and RGMII/MI</u>.

Notification Status: Final

Description of Change: Below are the changes

Section/Figure/Entry	Correction
Section 8.1, "Package Mark- ing	Updated top marking information.
Information," on	
, -	
page 255	
Section 8.2, "Package Draw- ings," on page	Updated package drawings.
256	
Table 4-2, "Enabling and Disabling Quiet-	Updated MMD Quiet-WIRE Configuration 3 Regis-
WIRE"	ter "Disable Quiet-WIRE" entry.
Table 4-17, "Matching Rule Options"	Table updated.
Section 4.4.9, "Tail Tagging Mode," on	Section updated. Added PTP specific content.
page 41	
Section 4.1.11, "LinkMD®+ Enhanced	Updated LinkMD+ text.
Diagnostics: Receive Signal Quality Indi-	
cator," on page 26	
Section 4.1.8, "Quiet-WIRE Filtering," on	Updated functional description and added Quiet-
page 24, Sec- tion 5.4, "MDIO Manage-	Wire register descriptions.
able Device (MMD) Registers (Indirect),"	
on page 220	
Section 4.1.10, "LinkMD® Cable	LinkMD details added.
Diagnostics," on page 25	Minou tout doubleation
Section 4.4.15, "Low Latency Cut-	Minor text clarification.
Through Mode," on page 45	Taut convection
Section 4.4.2.4, "Learning,"	Text correction.
an nana 22	
on page 32	Connected Oldensettings atoms Ouders to Oldenset
Section 4.4.2.6, "Aging," on page 32	Corrected "time stamp" to "age
	count" in multiple locations.
Section 5.2.2.5, "PHY Auto-	Changed default value of Pause (Flow Control)
Negotiation Advertisement Register,"	Capability bit to a note referencing the LED1_1
on page 160	configuration strap.
Section 5.2.2.10, "PHY 1000BASE-T	Corrected bit 10 default value. Added information
Control Regis- ter," on page 164	on Test Mode Bits 15:13.



Castian E 2.0.4 UDant Anthematication	
Section 5.2.8.4, "Port Authentication	Corrected bits 1:0 description.
Control Reg- ister," on page 190	
Section 5.1.6.11, "Global PTP	Corrected 802.3AS to 802.1AS and added descrip-
Message Config 1 Reg- ister," on	· · ·
	tions.
page 125	
Section 5.2.2.16, "PHY LinkMD	Updated register bit descriptions.
Register," on page 168	
Section 5.1.1.4, "Global Chip ID 3	Corrected bit 0 description.
Register," on page 75	'
Section 5.4, "MDIO Manage- able	Added definitions for MMD Signal Quality Register
	5 5 , 5
Device (MMD) Regis- ters (Indirect),"	(ACh) and MMD Quiet-WIRE Configuration Regis-
on page 220	ters (25h-34h).
Section 5.4, "MDIO Manage- able Device	Corrected the MMD register read example.
(MMD) Regis- ters (Indirect)," on page 220	5 1
Continue (MMD Owint WIDE	Undeted defeult value fields
Section 5.4.8, "MMD Quiet- WIRE	Updated default value fields.
Configuration 1 Reg- ister," on page 223,	
Section 5.4.9, "MMD Quiet-WIRE	
Configuration 2 Register," on page 223,	
Section 5.4.10, "MMD Quiet-WIRE	
Configu- ration 3 Register," on	
Coningu- ration 3 Register, on	
page 224	
Table 6-2, "RGMII Timing Values," on	Revised minimum RGMII TSKEW parameter.
page 239	
Table 3-3, "Configuration Strap	Corrected swapping of LED2_0 and LED4_0,
Descriptions,&rdguo on page 18	added notes in strapping. Corrected RXD6_0 in
Descriptions, druguo, on page 10	
	strapping table.
Table 1-3, "Register Nomen-	Added additional WOC "Write zero to
clature," on page 7	clear" bit type.
Section 5.5.1, "SGMII Con- trol Register,"	Corrected defaults and bit types. Added details
on page 228	and updated bit names.
Section 5.5.2, "SGMII Status Register," on	Corrected defaults and bit types. Updated Link
page 229	Sta- tus description.
Section 5.5.5, "SGMII Auto- Negotiation	Added additional description.
Advertisement Register," on page 230	
	Added new register definitions
Section 5.5.6, "SGMII Auto- Negotiation	Added new register definitions.
Link Partner Base Ability Register," on page	
231, Section 5.5.7, "SGMII Auto-	
Negotiation Expansion Register," on page	
232	
Section 5.5.8, "SGMII Digital Control	Added additional description.
Register," on	· · · · · · · · · · · · · · · · · · ·
Page 222 Contine F.F.O. MCCMIT Auto	
page 232, Section 5.5.9, "SGMII Auto-	
Negotiation Control Register," on page	
233, Section 5.5.10, "SGMII Auto-	
Negotiation Status Register," on	
page 234	
Section 5.1.3.1, "Power Down Control 0	Added SGMII-specific information to bits 4:3
	description.
Register," on page 85	
Section 5.2.1.5, "Port Inter- rupt Status	Updated bit 3.
Register," on page 153, Section 5.2.1.6,	
"Port Interrupt Mask Regis- ter," on page	
154	
Section 5.1.7.14, "Global HSR AME Control	Made bit 6 reserved.
Register 0," on page 148	



Section 2.1, "General Description," on page 8, Section 4.14.4, "Serial Giga- bit Media Independent Inter- face (SGMII) (Port 7)," on page 70	Updated SGMII description.
Section 4.10, "Power," on page 59	Corrected reference to AVDDH.

Impacts to Data Sheet: None

Reason for Change: To Improve Manufacturability

Change Implementation Status: Complete

Date Document Changes Effective: 30 Nov 2018

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