



## Product Change Notification / SYST-23FMQU421

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### Date:

28-Mar-2023

### Product Category:

EtherCAT

### PCN Type:

Document Change

### Notification Subject:

Data Sheet - LAN9254 2/3-Port EtherCat SubDevice Controller with Integrated Ethernet PHYs and Demultiplexed HBI / 32 DIGIOs

### Affected CPNs:

[SYST-23FMQU421\\_Affected\\_CPN\\_03282023.pdf](#)  
[SYST-23FMQU421\\_Affected\\_CPN\\_03282023.csv](#)

### Notification Text:

SYST-23FMQU421

Microchip has released a new Datasheet for the LAN9254 2/3-Port EtherCat SubDevice Controller with Integrated Ethernet PHYs and Demultiplexed HBI / 32 DIGIOs of devices. If you are using one of these devices please read the document located at [LAN9254 2/3-Port EtherCat SubDevice Controller with Integrated Ethernet PHYs and Demultiplexed HBI / 32 DIGIOs](#)

**Notification Status:** Final

#### Description of Change:

DS00003422B (02-22-23) Throughout Document

- I2C Host changed to I2C Controller
- I2C Client to I2C Target
- SPI or SQI "slave" changed to SQI "client"
- EtherCat Master and EtherCat Slave changed to "EtherCat MainDevice" and "EtherCat SubDevice" where appropriate
- Corrected misc. grammar/typos Section 8.4.3, EtherCAT Direct Mapped mode "EtherCAT Direct Mapped mode" note updated
- Section 10.2.13.1, Time Domain Reflectometry (TDR) Cable Diagnostics Updated Open/Short Case
- Table 10-6, "Typical Measurement Error for Open Cable (+/- Meters)",
- Table 10-7, "Typical Measurement Error for Shorted Cable (+/- Meters)" Tables updated. Added "Open and Shorted cases" note regarding Table 10-6 and
- Table 10-7 Table 10-10, "Signal Quality Index Value Correlation" Updated SQI value of 7 SNR, replaced SNR <= 24 dB to SNR >= 24 dB
- Section 11.16.7, Port Descriptor Register, Section 17.6, AC Specifications, References to RMII have been removed Section 11.16.7, Port

Descriptor Register, Section11.16.8, ESC Features Supported Register, Section11.16.36, RX Error Counter Registers, Section11.16.37, Forwarded RX Error Counter Registers References to EBUS have been removed Section11.16.7, Port Descriptor Register References to EBUS have been removed  
Table17-2, "Maximum Power Dissipation" Updated the max power numbers Table17-3, "Current Consumption and Power Dissipation (Regs. Disabled)",  
Table17-4, "Current Consumption and Power Dissipation (Regs. Enabled)" Updated the typical numbers. Added "D0, D1, D2 and D3" note.

**Impacts to Data Sheet:** See above details.

**Reason for Change:** To Improve Productivity

**Change Implementation Status:** Complete

**Date Document Changes Effective:** 28 March 2023

**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:

**LAN9254 2/3-Port EtherCat SubDevice Controller with Integrated Ethernet PHYs and Demultiplexed HBI / 32 DIGIOs**

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

## Terms and Conditions:

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Affected Catalog Part Numbers (CPN)

LAN9254-I/JRX

LAN9254-V/JRX

LAN9254/JRX

LAN9254T-I/JRX

LAN9254T-V/JRX

LAN9254T/JRX