



Product Change Notification / SYST-13HAHH517

Date:

16-Jan-2023

Product Category:

Ethernet Bridges

PCN Type:

Document Change

Notification Subject:

Data Sheet - LAN7430/LAN7431 Low Power PCIe to Gigabit Ethernet Controller with Integrated Ethernet MAC / PHY - Data Sheet

Affected CPNs:

[SYST-13HAHH517_Affected_CPN_01162023.pdf](#)
[SYST-13HAHH517_Affected_CPN_01162023.csv](#)

Notification Text:

SYST-13HAHH517

Microchip has released a new Datasheet for the LAN7430/LAN7431 Low Power PCIe to Gigabit Ethernet Controller with Integrated Ethernet MAC / PHY - Data Sheet of devices. If you are using one of these devices please read the document located at [LAN7430/LAN7431 Low Power PCIe to Gigabit Ethernet Controller with Integrated Ethernet MAC / PHY - Data Sheet](#)

Notification Status: Final

Description of Change:

1. Product Features - Removed the following features: LinkMD® TDR-Based cable diagnostic, Signal Quality Indicator, Quiet-WIRE® technology, and Signal Quality Indicator (SQI) support.
2. Section 1.4, "Reference Documents" Updated reference documents to latest URLs.
3. Table 2-1, "LAN7430/LAN7431 Family Feature Matrix" Updated to remove automotive option from LAN7430.
4. Section 2.1, "General Description", Section 6.6, "IEEE 1588v2 (PTP)" Updated "delay mechanisms" to "delay request mechanisms."
5. Product Features, Section 6.6, "IEEE 1588v2 (PTP)" - Updated 1588 (PTP) master/slave language to "timeTransmitter/timeReceiver".
6. Section 6.6.1, "IEEE 1588-2008" Updated "Grand Master Clock" to "Grandmaster Clock".
7. Section 6.12.9, Ethernet PHY Software Reset Text updated from "An optional 125ms delay can be enabled to allow for the external PHY to become ready. This is enabled with the External PHY Ready Delay Enable (EXT_PHY_RDY_EN) bit." to "A 125 ms delay is enabled for the external PHY to become ready after software reset. This can be disabled by clearing the External PHY Ready Delay Enable (EXT_PHY_RDY_EN) bit."
8. Section 7.1, "Absolute Maximum Ratings*" HBM updated from "±2kV" to "±3kV".

9. Section 8.0, "Package Information" Top markings for both LAN7430 and LAN7431 have been added to the document.
10. Section, "Highlights", Section TABLE 2-1, "LAN7430/LAN7431 Family Feature Matrix", Section 7.3, "Package Thermal Specifications", Section 8.0, "Package Information", Product Identification System Updated to reflect package type changed from "SQFN" to "VQFN".
11. Throughout Document Added "Automotive for LAN7431 only" where appropriate.

Impacts to Data Sheet: None

Reason for Change: To Improve Productivity

Change Implementation Status: Complete

Date Document Changes Effective: 16 Jan 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:

[LAN7430/LAN7431 Low Power PCIe to Gigabit Ethernet Controller with Integrated Ethernet MAC / PHY - Data Sheet](#)

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Affected Catalog Part Numbers (CPN)

LAN7430/Y9X
LAN7431/YXX
LAN7430-I/Y9X
LAN7431-I/YXX
LAN7431-V/YXX
LAN7431-V/YXXVAO
LAN7431T-V/YXX
LAN7431T-V/YXXV01
LAN7431T-V/YXXV02
LAN7431T-V/YXXVAO
LAN7430T/Y9X
LAN7431T/YXX
LAN7430T-I/Y9X
LAN7431T-I/YXX