

3-Port 10/100 Ethernet Switch with RGMII/MII/RMII Interface and IEEE 1588v2 / 802.1AS

Highlights

- Non-blocking wire-speed Ethernet switching fabric
- Full-featured forwarding and filtering control, including Access Control List (ACL) filtering
- Full VLAN and QoS support
- Two ports with integrated 10/100BASE-T PHYs
- One port with 10/100 Ethernet MAC and configurable RGMII/MII/RMII interface
- EtherSynch[®] IEEE 1588v2 Precision Time Protocol (PTP) and IEEE 802.1AS/Qav Audio Video Bridging (AVB) support
- IEEE 802.1X port-based authentication support
- EtherGreen[™] power management features, including low power standby and IEEE 802.3az
- Flexible management interface options: SPI, I²C, MIIM, and in-band management via any port
- Automotive AEC-Q100 Grade 2 Qualified (-40°C to +105°C)
- 64-pin VQFN (8 x 8mm) lead-free package

Target Applications

- Automotive Ethernet
- Industrial Ethernet (Profinet, MODBUS, Ethernet/IP)
- Real-time Ethernet networks
- Industrial control/automation switches
- Networked measurement and control systems
- Test and measurement equipment

Features

- Switch Management Capabilities
 - 10/100Mbps Ethernet switch basic functions: frame buffer management, address look-up table, queue management, MIB counters
 - Non-blocking store-and-forward switch fabric assures fast packet delivery by utilizing 4096 entry forwarding table with 128kByte frame buffer
 - Jumbo packet support up to 9000 bytes
 - Port mirroring/monitoring/sniffing: ingress and/or egress traffic to any port
 - Rapid spanning tree protocol (RSTP) support for topology management and ring/linear recovery
 - Multiple spanning tree protocol (MSTP) support
- One Configurable External MAC Port
 - Reduced Gigabit Media Independent Interface (RGMII) v2.0
 - Reduced Media Independent Interface (RMII) v1.2 with 50MHz reference clock input/output option
 - Media Independent Interface (MII) in PHY/MAC mode

- Two Integrated PHY Ports
 - 100BASE-TX/10BASE-T IEEE 802.3
 - Quiet-WIRE[®] filtering option for reduced emissions
 - LinkMD[®]+ receive signal quality indicator
 - Fast Link-up option support in specialized applications
 - Fast Link-up option significantly reduces link-up time
 - Auto-negotiation and Auto-MDI/MDI-X support
 - Energy-Efficient Ethernet (EEE) support with low-power idle mode and clock stoppage
 - On-chip termination resistors and internal biasing for differential pairs to reduce power
 - LinkMD[®] cable diagnostic capabilities for determining cable opens, shorts, and length
- Advanced Switch Capabilities
 - IEEE 802.1Q VLAN support for 128 active VLAN groups and the full range of 4096 VLAN IDs
 - IEEE 802.1p/Q tag insertion/removal on per port basis
 - VLAN ID tag/untag options on per port or VLAN basis
 - IEEE 802.3x full-duplex flow control and half-duplex back pressure collision control
 - IEEE 802.1X (Port-Based Network Access Control)
 - IGMP v1/v2/v3 snooping for multicast packet filtering
 - IPv6 multicast listener discovery (MLD) snooping
 - IPv4/IPv6 QoS support, QoS/CoS packet prioritization
 - 802.1p QoS packet classification with 4 priority queues
 - Programmable rate limiting at ingress/egress ports
- EtherSynch[®] IEEE 1588v2 PTP
 - Transparent Clock (TC) with auto correction update
 - Master and slave Ordinary Clock (OC) support
 - End-to-end (E2E) or peer-to-peer (P2P)
 - PTP multicast and unicast message support
 - PTP message transport over IPv4/v6 and IEEE 802.3
 - IEEE 1588v2 PTP packet filtering
 - Synchronous Ethernet support via recovered clock
- EtherSynch[®] Audio Video Bridging (AVB)
 - Compliant with IEEE 802.1BA/AS/Qat/Qav standards
 - gPTP time synchronization, credit-based traffic shaper
- Comprehensive Configuration Registers Access
 - High-speed 4-wire SPI (up to 50MHz), I²C interfaces provide access to all internal registers
 - MII Management (MIIM, MDC/MDIO 2-wire) Interface provides access to all PHY registers
 - In-band management via any of the three ports
 - I/O pin strapping facility to set certain register bits from I/O pins at reset time
- Power Management
 - IEEE 802.3az Energy Efficient Ethernet (EEE)
 - Energy detect power-down mode on cable disconnect
 - Dynamic clock tree control
 - Unused ports can be individually powered down
 - Full-chip software power-down

KSZ8563RNX

- Wake-on-LAN (WoL) standby power mode

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1.0 INTRODUCTION

1.1 General Description

The KSZ8563RNX is a highly-integrated, IEEE 802.3 compliant networking device that incorporates a layer-2+ managed high-performance Ethernet switch, two 10BASE-T/100BASE-TX physical layer transceivers (PHYs) and associated MAC units, and one MAC port with a configurable RGMII/MII/RMII interface for direct connection to a host processor/controller, another Ethernet switch, or an Ethernet PHY transceiver.

The KSZ8563RNX is built upon industry-leading Ethernet technology, with features designed to offload host processing and streamline the overall design:

- Non-blocking wire-speed Ethernet switch fabric
- Full-featured forwarding and filtering control, including port-based Access Control List (ACL) filtering
- Full VLAN and QoS support
- Traffic prioritization with per-port ingress/egress queues and by traffic classification
- Spanning Tree support for RSTP and MSTP
- IEEE 802.1X port-based authentication support

The KSZ8563RNX incorporates full hardware support for the IEEE 1588v2 Precision Time Protocol (PTP), including hardware time-stamping at all PHY-MAC interfaces, and a high-resolution hardware “PTP clock”. IEEE 1588 provides sub-microsecond synchronization for a range of industrial Ethernet applications.

The KSZ8563RNX fully supports the IEEE family of Audio Video Bridging (AVB) standards, which provides high Quality of Service (QoS) for latency sensitive traffic streams over Ethernet. Time-stamping and time-keeping features support IEEE 802.1AS time synchronization. All ports feature credit based traffic shapers for IEEE 802.1Qav.

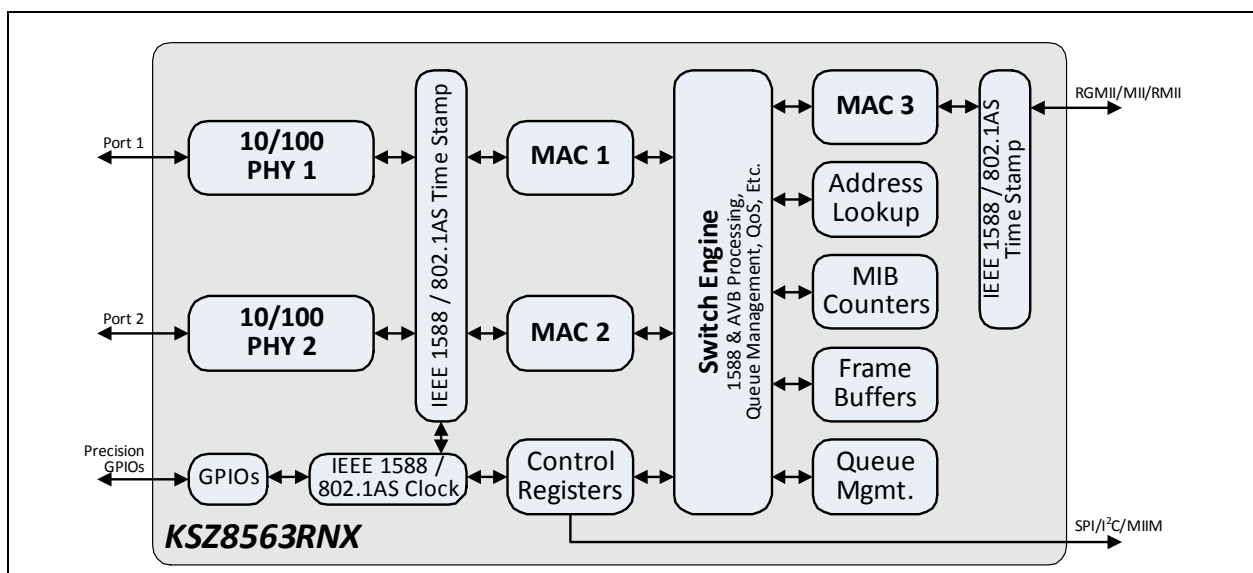
The 100Mbps PHYs feature optional Quiet-WIRE[®] internal filtering to reduce line emissions and enhance immunity to environmental noise. It is ideal for automotive or industrial applications where stringent radiated emission limits must be met.

A host processor can access all KSZ8563RNX registers for control over all PHY, MAC, and switch functions. Full register access is available via the integrated SPI or I²C interfaces, and by in-band management via any one of the data ports. PHY register access is provided by a MIIM interface. Flexible digital I/O voltage allows the MAC port to interface directly with a 1.8/2.5/3.3V host processor/controller/FPGA.

Additionally, a robust assortment of power-management features including IEEE 802.3az Energy-Efficient Ethernet (EEE) for power savings with idle link, and Wake-on-LAN (WoL) for low power standby operation, have been designed to satisfy energy-efficient system requirements.

The KSZ8563RNX is available in an automotive (-40°C to +105°C) temperature range. An internal block diagram of the KSZ8563RNX is shown in [Figure 1-1](#).

FIGURE 1-1: INTERNAL BLOCK DIAGRAM

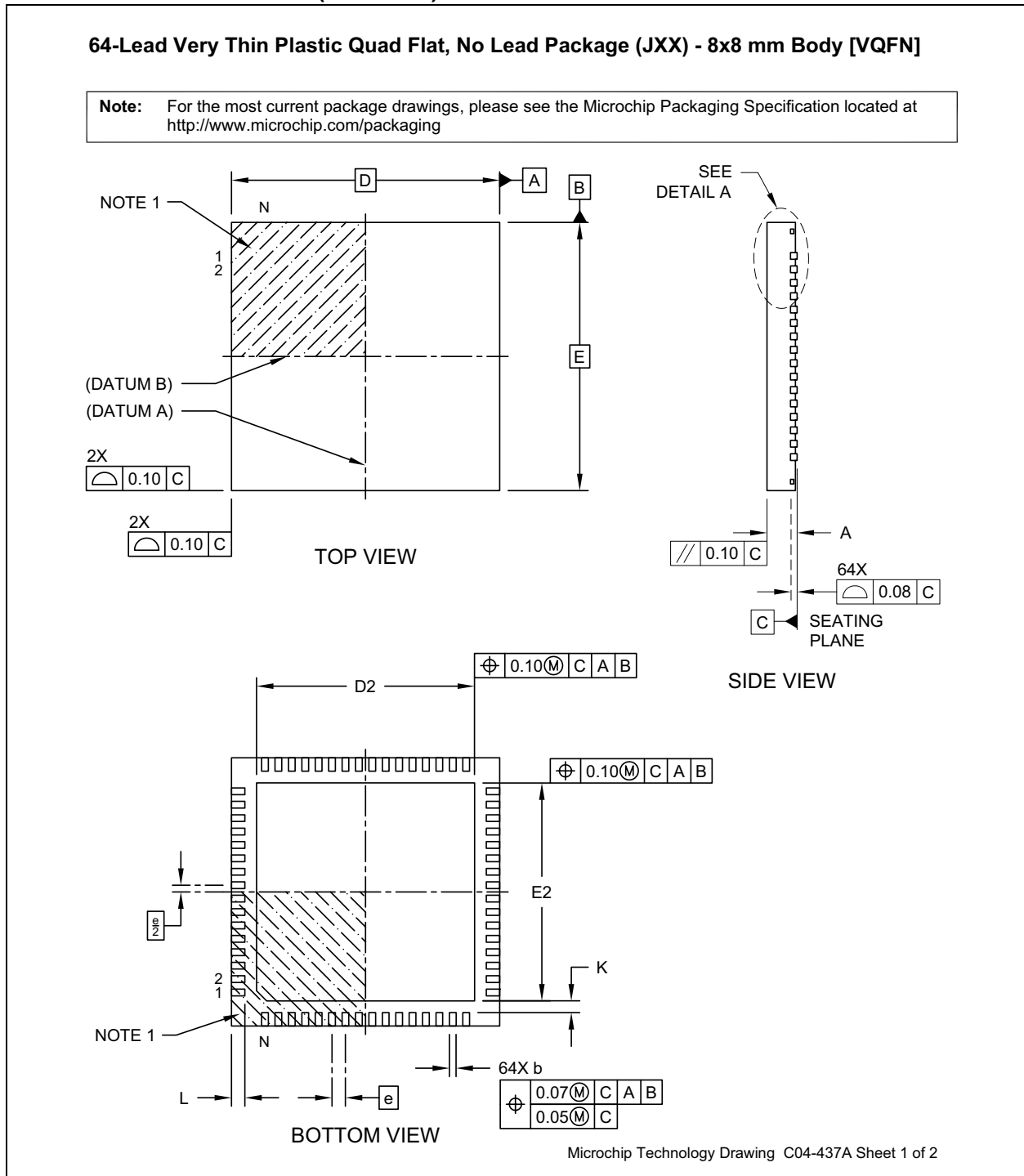


2.0 PACKAGE INFORMATION

2.1 Package Drawings

Note: For the most current package drawings, please see the Microchip Packaging Specification located at <http://www.microchip.com/packaging>

FIGURE 2-1: PACKAGE (DRAWING)

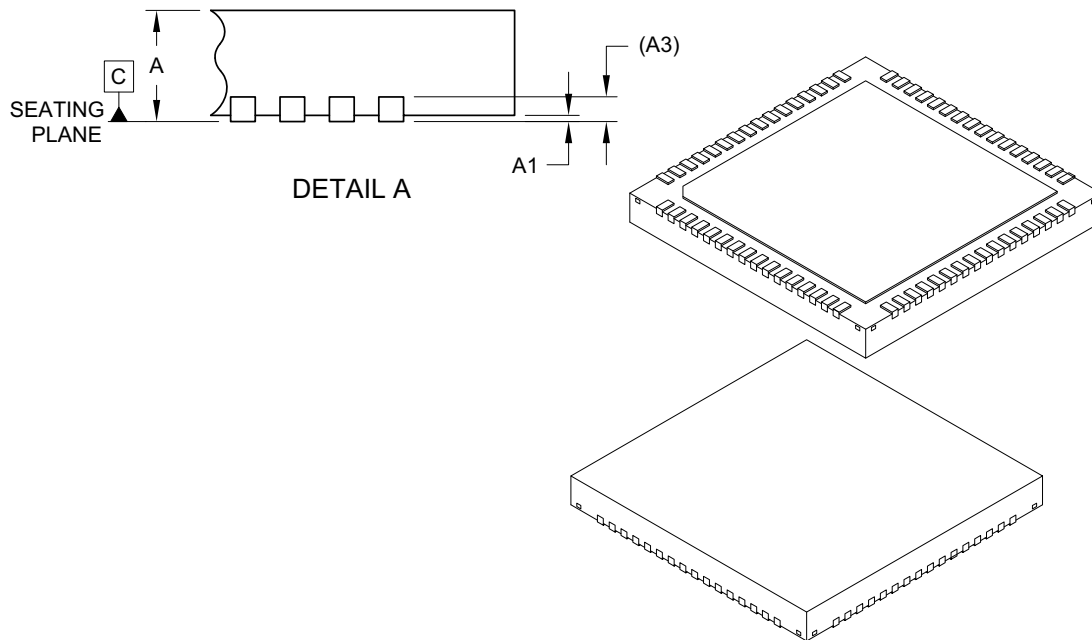


KSZ8563RNX

FIGURE 2-2: PACKAGE (DIMENSIONS)

64-Lead Very Thin Plastic Quad Flat, No Lead Package (JXX) - 8x8 mm Body [VQFN]

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Dimension Limits	Units	MILLIMETERS		
		MIN	NOM	MAX
Number of Terminals	N	64		
Pitch	e	0.40 BSC		
Overall Height	A	0.80	0.85	0.90
Standoff	A1	0.00	0.02	0.05
Terminal Thickness	A3	0.20 REF		
Overall Length	D	8.00 BSC		
Exposed Pad Length	D2	6.40	6.50	6.60
Overall Width	E	8.00 BSC		
Exposed Pad Width	E2	6.40	6.50	6.60
Terminal Width	b	0.15	0.20	0.25
Terminal Length	L	0.35	0.40	0.45
Terminal-to-Exposed-Pad	K	0.25	-	-

Notes:

1. Pin 1 visual index feature may vary, but must be located within the hatched area.
2. Package is saw singulated
3. Dimensioning and tolerancing per ASME Y14.5M

BSC: Basic Dimension. Theoretically exact value shown without tolerances.

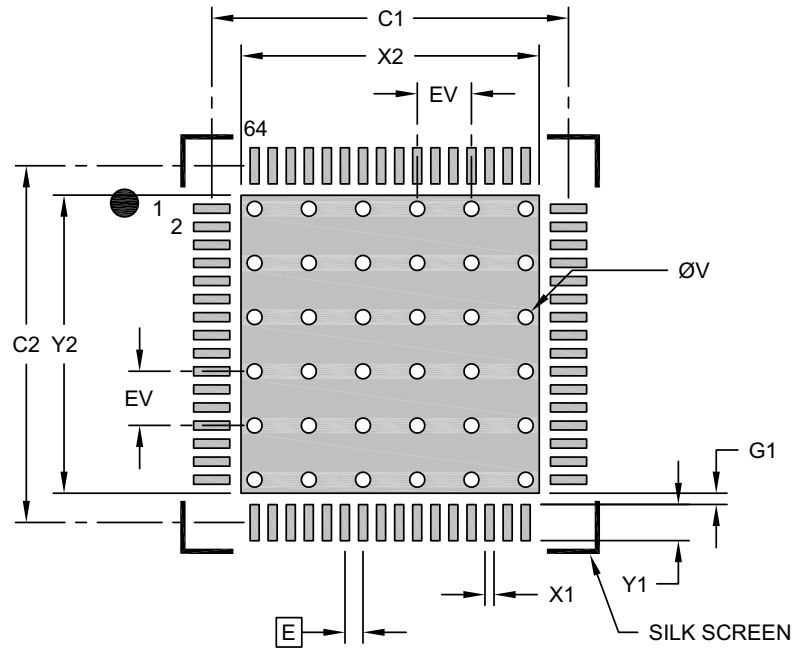
REF: Reference Dimension, usually without tolerance, for information purposes only.

Microchip Technology Drawing C04-437A Sheet 2 of 2

FIGURE 2-3: PACKAGE (LAND PATTERN)

64-Lead Very Thin Plastic Quad Flat, No Lead Package (JXX) - 8x8 mm Body [VQFN]

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RECOMMENDED LAND PATTERN

Dimension Limits	Units	MILLIMETERS		
		MIN	NOM	MAX
Contact Pitch	E	0.40 BSC		
Optional Center Pad Width	X2			6.60
Optional Center Pad Length	Y2			6.60
Contact Pad Spacing	C1		7.90	
Contact Pad Spacing	C2		7.90	
Contact Pad Width (X64)	X1			0.20
Contact Pad Length (X64)	Y1			0.80
Contact Pad to Center Pad (X64)	G1	0.20		
Thermal Via Diameter	V		0.33	
Thermal Via Pitch	EV		1.20	

Notes:

- Dimensioning and tolerancing per ASME Y14.5M
BSC: Basic Dimension. Theoretically exact value shown without tolerances.
- For best soldering results, thermal vias, if used, should be filled or tented to avoid solder loss during reflow process

Microchip Technology Drawing C04-2437A

APPENDIX A: PRODUCT BRIEF REVISION HISTORY

TABLE A-1: REVISION HISTORY

Revision	Section/Figure/Entry	Correction
DS00002320A (12-16-16)	Initial Document Release	

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<u>PART NO.</u>	<u>XX</u>	<u>X</u>	<u>[XX]⁽¹⁾</u>
Device	Package	Temp. Range	Tape & Reel Option
Device:	KSZ8563R = 3-Port Switch with 1 RGMII/MII/RMII Interface		
Package:	NX = 64-pin VQFN		
Temperature Range:	V = -40°C to +105°C (Extended Automotive Grade 2)		
Tape and Reel Option:	Blank = Standard packaging (tray) -TR = Tape and Reel (Note 1)		
Automotive Code:	-VAO = Automotive AEC-Q100 Qualified		

Examples:

a) KSZ8563RNXV-VAO
64-pin VQFN package,
Extended automotive temperature,
Standard packaging

b) KSZ8563RNXV-TR-VAO
64-pin VQFN package,
Extended automotive temperature,
Tape and reel

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