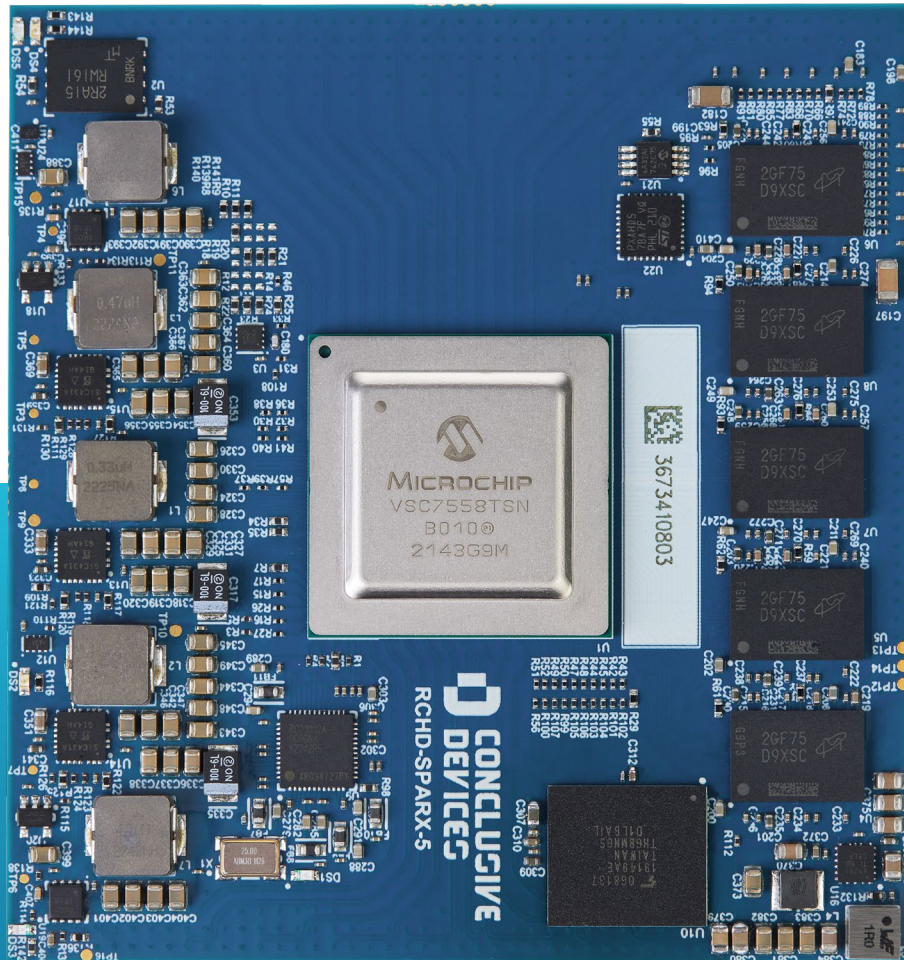


# RCHD-SPARX

## Networking Switch SoM



## RCHD-SPARX

- 1 GHz Dual-Core Arm® Cortex®-A53 Processor
- Up to 4 GB DDR4 RAM
- Up to 200 Gbit/s switching throughput
- Up to 65 Configurable Ethernet Ports
- Advanced Features:  
L2/L3 Switching, QoS, PCIe 3.0, TSN, SyncE, optional TPM 2.0

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## Networking Switch SoM



visit product website

### RCHD-SPARX Specifications

<b>SoC</b>	Microchip SparX-5 Ethernet Switch - VSC7552, VSC7556, VSC7558, VSC7546, VSC7549
<b>CPU Architecture</b>	1 GHz dual-core Arm® Cortex®-A53 Arm® Cortex®-M3
<b>Memory</b>	DDR4 SDRAM with ECC support (1, 2 or 4 GB)
<b>Ethernet</b>	64, 90, 128, 160, 200 Gbit/s total switching bandwidth 65 Configurable Ethernet ports Sample configuration: 8x 25 Gbit/s + 12x 10 Gbit/s + 24x 2.5 Gbit/s Support for QSGMII, USGMII, USXGMII, HSGMII, SGMII, 10GBASE-R, 25GBASE-R
<b>Mass storage</b>	eMMC (4 – 64 GB) EEPROM (32 KB) SPI NOR flash for bootloader (32 MB) Optional M.2 NVMe via baseboard
<b>PCIe</b>	1x 3.0 PCIe configurable as root complex or endpoint mode
<b>Other Interfaces</b>	SPI I2C GPIO
<b>Debug</b>	JTAG
<b>Software support</b>	Linux 6.1 & 6.5 U-Boot Yocto Buildroot Ubuntu FreeBSD (on request)
<b>Additional features</b>	IEEE1588, TSN, RTC, TPM 2.0 optional
<b>Power supply</b>	5 V
<b>Dimensions</b>	75 x 80 mm

### Baseboards 1U rack mounted form factor

<b>Baseboard A:</b>	8x 25 GbE SFP28 12x 5 GbE RJ-45 PoE++ 12x 10 GbE RJ-45 PoE++
<b>Baseboard B:</b>	8x 25 GbE SFP28 48x 2.5 GbE RJ-45 PoE++
<b>Baseboard C:</b>	8x 25 GbE SFP28 12x 10 GbE SFP+ 12x 5 GbE RJ-45 PoE++

### About Conclusive Engineering

We provide reliable development and consulting services for various embedded platforms, assisting enterprises and manufacturing companies in optimizing their processes through tailored embedded system services, products, and hardware solutions.

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