

# Products

We design and develop Single Board Computers and System On Modules for a broad range of applications. Looking for maximum performance, low power consumption and maximum efficiency? Our product lines feature cutting-edge boards designed to satisfy your most demanding needs.



System on Modules



Single Board Computers



Eval Kits



Accessories

## System on Modules

3

RCHD-PF	4
RCHD-AM62	5
RCHD-SPARX	6
HPC-LX2	7

## Single Board Computers

8

WHLE-LS1	9
KSTR-SAMA5D27	10
KSTR-IMX93	11

## Eval Kits and Accessories

12

RCHD-PF-EVAL	13
ETH-1000-T1	14
ETH-SFP-LTE	15

## Company



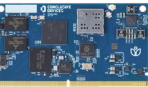

16

Custom PCB Design and Manufacturing	16
Conclusive Engineering Profile	17

## Hardware is just the start

All our boards and modules come with an excellent software support: included **Board Support Packages** offer support for latest U-Boot and Linux kernels as well as system-specific libraries and frameworks such as DPDK or eXpress Data Path.

# System on Modules Overview

Product	SoC	CPU Architecture	Memory
<b>RCHD-PF</b> 	Microchip PolarFire® FPGA SoC	RISC-V, up to 667 MHz, 5 cores 4x RV64GC application cores 1x RV64IMAC monitor/boot core Performance: 3.125 CoreMarks/MHz, 1.714 DMIPS/MHz	LPDDR4 <ul style="list-style-type: none"> <li>• 512 MB</li> <li>• 1 GB</li> <li>• 2 GB</li> <li>• 4 GB</li> </ul> 1600 MT/s
<b>RCHD-SPARX</b> 	Microchip SparX-5 Ethernet Switch <ul style="list-style-type: none"> <li>• VSC7552</li> <li>• VSC7556</li> <li>• VSC7558</li> <li>• VSC7546</li> <li>• VSC7549</li> </ul>	1 GHz dual-core Arm® Cortex®-A53 Arm® Cortex®-M3	DDR4 SDRAM with ECC support <ul style="list-style-type: none"> <li>• 1 GB</li> <li>• 2 GB</li> <li>• 4 GB</li> </ul>
<b>RCHD-AM62</b> 	Texas Instruments AM623x/AM625x	Up to 4x Arm® Cortex®-A53 1400MHz  Single core Arm® Cortex®-M4  Single core Arm® Cortex®-R5	DDR4 SDRAM <ul style="list-style-type: none"> <li>• 512 MB</li> <li>• 1 GB</li> <li>• 2 GB</li> <li>• 4 GB</li> <li>• 8 GB</li> </ul>
<b>HPC-LX2</b> 	NXP Layerscape® LX2 SoC variants: <ul style="list-style-type: none"> <li>• LX2080A, 8 core Arm® Cortex®-A72 2.2 GHz CPU with DPAA2</li> <li>• LX2120A, 12 core Arm® Cortex®-A72 2.2 GHz CPU with DPAA2</li> <li>• LX2160A, 16 core Arm® Cortex®-A72 2.2 GHz CPU with DPAA2</li> </ul>	-	4x DDR4 DIMM socket supporting up to 256 GB  DDR4 SDRAM with ECC (up to 3200 MT/s)

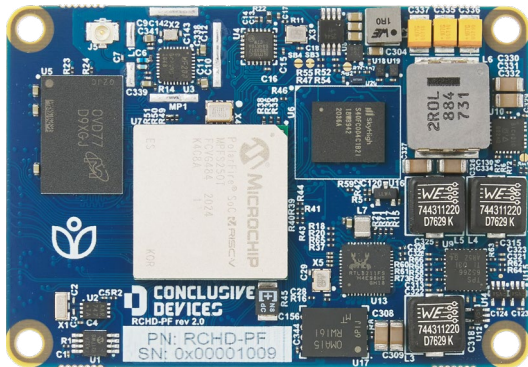
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# RCHD-PF

## Polarfire System on Module



### RCHD-PF key features:

- 667 MHz RISC-V, 5 cores
- Microchip PolarFire® FPGA: 23K - 254K Logic Elements
- RISC-V and FPGA integrated on a Single Chip
- High-Speed I/O and 12.7 Gbit/s transceivers
- Real-Time Signal Processing with Hardware Offloading

### RCHD-PF Polarfire System on Module

Highly scalable System-on-Module, capable of performant and extremely efficient digital signal processing.

Ideal for FPGA-specific loads like video processing, imaging, artificial intelligence, deep packet inspection, advanced sensor fusion, and Operational Technology systems supervision

- all in real-time.



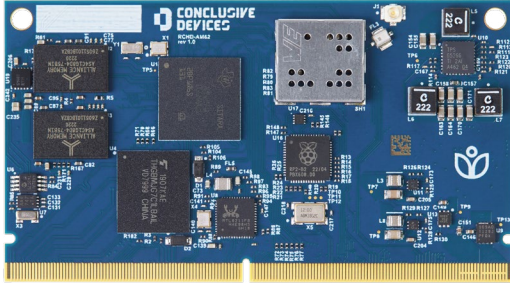
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#### RCHD-PF Specifications

<b>SoC</b>	Microchip PolarFire® FPGA SoC
<b>CPU Architecture</b>	RISC-V, up to 667 MHz, 5 cores 4x RV64GC application cores 1x RV64IMAC monitor/boot core Performance: 3.125 CoreMarks/MHz, 1.714 DMIPS/MHz
<b>FPGA</b>	Microchip PolarFire® SoC: <ul style="list-style-type: none"> <li>• MPFS025T - 23k logic elements</li> <li>• MPFS095T - 93k logic elements</li> <li>• MPFS160T - 161k logic elements</li> <li>• MPFS250T - 254k logic elements</li> </ul>
<b>Memory</b>	LPDDR4 (512 MB, 1, 2 or 4 GB) 1600 MT/s
<b>Ethernet</b>	1x 1 Gbit/s Ethernet PHY 1x 1 Gbit/s Ethernet MAC (SGMII interface)
<b>Mass storage</b>	eMMC 5.0 (4-64 GB) 4 KB EEPROM NOR Flash memory (32 MB) for FPGA configuration
<b>PCIe</b>	PCIe 2.0 up to x4
<b>USB</b>	1x USB 2.0 OTG
<b>Debug</b>	Conclusive Developer Cable connector providing access to: <ul style="list-style-type: none"> <li>• System UART</li> <li>• JTAG port</li> <li>• System I2C bus</li> </ul>
<b>Additional features</b>	802.11 b/g/n WiFi with u.fl antenna connector (optional) RTC with external battery back-up 30 high speed differential GPIO / 60 high speed single ended GPIO 32 differential GPIO / 64 single ended GPIO 4 XCVR bidirectional lanes (12.7 Gbit/s)
<b>Software support</b>	Linux 6.5 & 6.1, U-Boot, Yocto, Buildroot, Ubuntu, FreeBSD (on request)
<b>Operating Temperature</b>	-40 °C to 85 °C
<b>Power supply</b>	3.3 V
<b>Dimensions</b>	65 x 45 mm

# RCHD-AM62

## Industrial System on Module



### RCHD-AM62 key features:

- TI AM62x Sitara™ with up to 4 Cortex®-A53 Cores
- Up to dual 1080p Video Output and 3D Graphics Acceleration
- Dual 1 Gbit/s Ethernet, Wi-Fi 6, and Bluetooth 5.4 Connectivity
- Up to 1080p video input, industrial I/O interfaces
- Single 3.3 V power input for straightforward integration

### RCHD-AM62 Industrial System on Module

The RCHD-AM62 is an industrial System on Module that seamlessly integrates very high processing power with energy efficiency, making it the ideal solution for industrial purposes and power-constrained edge devices.



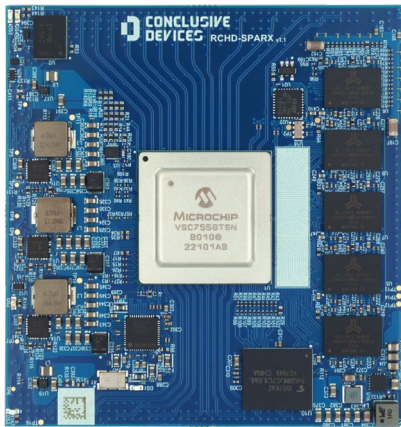
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#### RCHD-AM62 Specifications

<b>SoC</b>	Texas Instruments AM623x/AM625x
<b>CPU Architecture</b>	Up to 4x Arm® Cortex®-A53 1400MHz Single core Arm® Cortex®-M4 Single core Arm® Cortex®-R5
<b>GPU</b>	3D Graphics Processing Unit OpenGL ES 3.1, Vulkan 1.2
<b>Memory</b>	DDR4 SDRAM (512 MB, 1 GB, 2 GB, 4 GB, 8 GB)
<b>Ethernet</b>	2x 1 Gbit/s
<b>Mass storage</b>	eMMC (4 – 64 GB) EEPROM (32 KB)
<b>USB</b>	2x USB 2.0 DRD (Dual Role Device)
<b>Wireless connectivity</b>	2.4/5 GHz Dual-Band Wi-Fi® 6 IEEE 802.11ax  Bluetooth® 5.4  IEEE 802.15.4 Zigbee / Thread / Matter
<b>Other Interfaces</b>	3x SPI 5x UART 3x ePWM 3x CAN-FD 3x eCAP 4x I2C 3x eQEP QSPI/OSPI
<b>Security features</b>	HSM (Secure Boot), TRNG, SHA, AES, SKA, MD5, DRBG, QSPI/OSPI
<b>Hardware accelerators</b>	PRU-SS
<b>Debug</b>	USB Micro-B 2.0 console port on eval kit  JTAG
<b>Software support</b>	Linux 6.5 & 6.1 U-Boot Yocto Buildroot Ubuntu FreeBSD (on request)
<b>Power supply</b>	3.3 V
<b>Dimensions</b>	82 x 45 mm

# RCHD-SPARX

## Networking Switch SoM



### RCHD-SPARX key features:

- 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

### RCHD-SPARX High performance switch

RCHD-SPARX provides functionalities of a high performance switch in a small form factor solderable SoM. Up to 200 Gbit/s of switching bandwidth. Packed with hardware and software networking features.

Baseboards		1U rack mounted form factor
Baseboard A:		8x 25 GbE SFP28 12x 5 GbE RJ-45 PoE++ 12x 10 GbE RJ-45 PoE++
Baseboard B:		8x 25 GbE SFP28 48x 2.5 GbE RJ-45 PoE++
Baseboard C:		8x 25 GbE SFP28 12x 10 GbE SFP+ 12x 5 GbE RJ-45 PoE++

### RCHD-SPARX Specifications

SoC	Microchip SparX-5 Ethernet Switch - VSC7552, VSC7556, VSC7558, VSC7546, VSC7549
CPU Architecture	1 GHz dual-core Arm® Cortex®-A53 Arm® Cortex®-M3
Memory	DDR4 SDRAM with ECC support (1, 2 or 4 GB)
Ethernet	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
Mass storage	eMMC (4 – 64 GB) EEPROM (32 KB) SPI NOR flash for bootloader (32 MB) Optional M.2 NVMe via baseboard
PCIe	1x 3.0 PCIe configurable as root complex or endpoint mode
Other Interfaces	SPI I2C GPIO
Debug	JTAG
Software support	Linux 6.1 & 6.5 U-Boot Yocto Buildroot Ubuntu FreeBSD (on request)
Additional features	IEEE1588, TSN, RTC, TPM 2.0 optional
Power supply	5 V
Dimensions	75 x 80 mm



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# HPC-LX2

## System on Module



### HPC-LX2 key features:

- Form factor: COM-HPC Server variant D
- NXP Layerscape® LX2 SoC variants:
  - LX2160A/LX2120A/LX2080A
- Up to 256GB DDR4 DIMM with ECC
- 10/25/40/100 Gbit/s Ethernet connectivity
- Over 224,000 CoreMark® Performance






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### HPC-LX2 Specifications

<b>SoC</b>	NXP Layerscape® LX2 SoC variants: <ul style="list-style-type: none"><li>• LX2080A, 8 core Arm® Cortex®-A72 2.2 GHz CPU with DPAA2</li><li>• LX2120A, 12 core Arm® Cortex®-A72 2.2 GHz CPU with DPAA2</li><li>• LX2160A, 16 core Arm® Cortex®-A72 2.2 GHz CPU with DPAA2</li></ul>
<b>Memory</b>	4x DDR4 DIMM socket supporting up to 256 GB DDR4 SDRAM with ECC (up to 3200 MT/s)
<b>Ethernet</b>	8x 25 Gbit/s SerDes lanes capable of: <ul style="list-style-type: none"><li>• up to 2× 100 Gbit/s or 2× 40 Gbit/s</li><li>• up to 6× 25 Gbit/s</li><li>• up to 8× 10 Gbit/s</li></ul> 1x 1 Gbit/s with on-board 1000BASE-T PHY
<b>PCIe</b>	32x PCIe Gen 3 lanes 1x PCIe Gen 3 lane for BMC
<b>SATA</b>	2x 6 Gbit/s SATA 3.0 ports
<b>USB</b>	4x USB 3.0 4x USB 2.0
<b>Additional features</b>	2x UART 12x GPIO 2x SPI 2x I2C SMBus, IPMB 16MB QSPI flash for firmware
<b>Security</b>	TPM 2.0 Secure boot
<b>Debug</b>	Conclusive Developer Cable connector providing access to: <ul style="list-style-type: none"><li>• System UART</li><li>• JTAG port</li><li>• System I2C bus</li></ul>
<b>Software support</b>	Linux 6.1 & 6.5 U-Boot Yocto Buildroot Ubuntu FreeBSD (on request)
<b>Power supply</b>	12 V DC
<b>Dimensions</b>	160 x 160 mm
<b>Form factor</b>	COM-HPC Server variant D

# Single Board Computers Overview

Product	SoC	Memory	Connectivity
<b>WHLE-LS1</b> 	NXP Layerscape® SoC variants: <ul style="list-style-type: none"> <li>• S1026, 2 core Arm® Cortex®-A72 1.8 GHz CPU with DPAA</li> <li>• LS1046, 4 core Arm® Cortex®-A72 1.8 GHz CPU with DPAA</li> <li>• LS1048, 4 core Arm® Cortex®-A53 1.4 GHz CPU with DPAA2</li> <li>• LS1088, 8 core Arm® Cortex®-A53 1.6 GHz CPU with DPAA2</li> </ul>	1x SO-DIMM socket up to 32 GB DDR4 SDRAM with ECC (up to 2100 MT/s)	<b>Ethernet:</b> 4x 1 Gbit/s RJ45 2x 10 Gbit/s SFP+
<b>KSTR-SAMA5D27</b> 	Microchip SAMA5D27 1 core Arm® Cortex®-A5 500 MHz 32-Bit CPU	256 MB LPDDR2	<b>Ethernet:</b> 10/100 Mbit/s Ethernet (RJ-45)  <b>Wireless:</b> 2.4 GHz WLAN IEEE 802.11 b/g/n Bluetooth 4.1
<b>KSTR-IMX93</b> 	NXP i.MX93 <ul style="list-style-type: none"> <li>• 1-2 core Arm®Cortex®-A55 1.7 GHz CPU</li> <li>• 1 core Arm® Cortex®-M33 250 MHz CPU</li> </ul>	LPDDR4 (512 MB, 1 GB or 2 GB) Up to 128 GB eMMC uSD card slot	<b>Ethernet:</b> 1x 1 Gbit/s RJ-45 1x 1 Gbit/s with RGMII interface  <b>Wireless:</b> LTE Cat-M1 / NB-IoT WiFi 6 2.4 GHz and 5 GHz Bluetooth 5.4 802.15.4 Thread DECT NR+ GNSSbuilt in E-SIM / Soft SIM

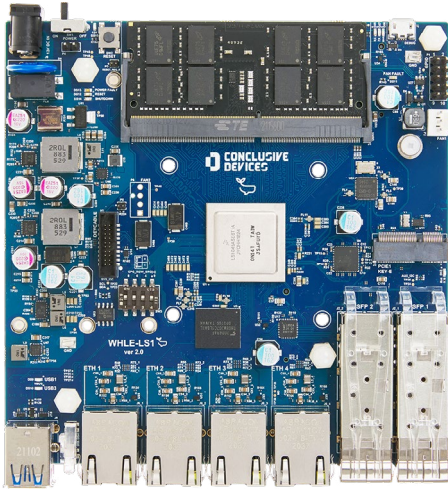
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# WHLE-LS1

## High Performance Single Board Computer



### WHLE-LS1 key features:

- NXP Layerscape® LS1 SoC Variants:  
LS1026A / LS1046A / LS1048A / LS1088A
- DDR4 SODIMM with ECC
- Robust Connectivity: 4× 1 Gbit/s Ethernet,  
2× 10 Gbit/s SFP+, 3x PCIe M.2
- Over 45,000 CoreMark® Performance with  
SmartNIC Capabilities



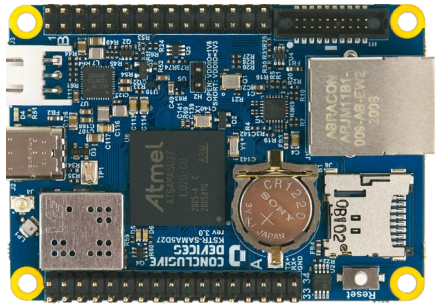
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### WHLE-LS1 Specifications

SoC	<p>NXP Layerscape® SoC variants:</p> <ul style="list-style-type: none"><li>• LS1026, 2 core Arm® Cortex®-A72 1.8 GHz CPU with DPAA</li><li>• LS1046, 4 core Arm® Cortex®-A72 1.8 GHz CPU with DPAA</li><li>• LS1048, 4 core Arm® Cortex®-A53 1.4 GHz CPU with DPAA2</li><li>• LS1088, 8 core Arm® Cortex®-A53 1.6 GHz CPU with DPAA2</li></ul>
Memory	1x SO-DIMM socket supporting up to 32 GB DDR4 SDRAM with ECC (up to 2100 MT/s)
Ethernet	4x 1 Gbit/s RJ45 2x 10 Gbit/s SFP+
Mass storage	4-64 GB eMMC 16 MB QSPI NOR Flash 8 KB EEPROM
PCIe	M.2 Key-M 2280 PCIe 3.0 x2 NVMe M.2 Key-M 2280 PCIe 3.0 x1 NVMe M.2 Key-E 2230 PCIe 3.0 x1 WiFi/BT with USB 2.0, I2C, UART
USB	1x or 2x USB A 3.0
Debug	<p>Conclusive Developer Cable connector providing access to:</p> <ul style="list-style-type: none"><li>• System UART</li><li>• JTAG port</li><li>• System I2C bus</li></ul> <p>1x USB Micro-B 2.0 console port (System UART)</p>
Software support	Linux 6.5 & 6.1 U-Boot UEFI-EDK2 Yocto Buildroot Ubuntu FreeBSD (on request)
Additional features	RTC with CR2032 back-up battery Boot source selector DIP switch 2x bi-color status LED Two channel fan controller with 3 pin and 4 pin fan connectors 6x GPIO (3.3 V) External I2C (3.3 V)
Power supply	12 V DC, 5 A, 2.5 x 5.5 mm barrel connector
Dimensions	130 x 130 mm

# KSTR-SAMA5D27

## Single Board Computer



### KSTR-SAMA5D27 key features:

- Arm® Cortex®-A5 500 MHz Processor
- 10/100 Mbit/s Ethernet, 96 Mbit/s Wi-Fi b/g/n, Bluetooth 4.1 LE
- Arm® TrustZone® Security, Stackable GPIO Headers, Secure Boot
- USB-C/Li-Ion battery powered with battery charging features
- Compact Form Factor: 50×70 mm



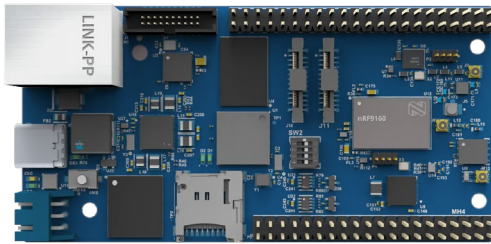
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### KSTR Specifications

<b>SoC</b>	Microchip SAMA5D27, 1 core Arm® Cortex®-A5 500 MHz 32-Bit CPU
<b>SoC Features</b>	Arm® TrustZone® Secure Boot Hardware encryption engine Memory Integrity Monitor Real-time clock on-die Less than 200 µA low power state with fast wake up 5 µA backup mode
<b>Memory</b>	256 MB LPDDR2
<b>Ethernet</b>	10/100 Mbit/s Ethernet (RJ-45)
<b>Wireless connectivity</b>	2.4 GHz WLAN IEEE 802.11 b/g/n Bluetooth 4.1
<b>Mass storage</b>	SD card slot 4 KB EEPROM
<b>USB</b>	1x USB 2.0 OTG (USB Type-C connector) 1x USB 2.0 Host (on expansion header)
<b>Debug</b>	Conclusive Developer Cable connector providing access to: <ul style="list-style-type: none"> <li>• System UART</li> <li>• JTAG port</li> <li>• System I2C bus</li> </ul> Console debug UART on the expansion header
<b>Software support</b>	Linux 6.5 & 6.1, U-Boot, Yocto, Buildroot, Ubuntu, FreeBSD (on request)
<b>Additional features</b>	3 status LEDs - Power Indicator, System Heartbeat, user programmable RTC Battery backup (CR1220) for RTC and static RAM VDDIO voltage switch pins (3.3 V or 1.8 V selection) Reset switch 34 and 30 pin connectors with the following interfaces: <ul style="list-style-type: none"> <li>• 3.3 V, 2.5 V, 1.8 V, 5.0 V and VBAT power supply pins</li> <li>• 2x Flexcom (configurable: I2C, SPI, UART)</li> <li>• I2C</li> <li>• 6 channel ADC with Vref</li> <li>• 10-bits ISC (Image Sensor Controller), 10-bit and 12-bit sensors support</li> <li>• 4-channel PWM</li> <li>• Timer I/O</li> <li>• CAN</li> <li>• USB</li> <li>• PDMIC audio input</li> <li>• Console UART</li> <li>• QWIIC connector</li> </ul>
<b>Power supply</b>	USB Type-C connector External Li-Ion battery with charging, charge level and temperature monitoring support. 3 pin connector and solder pads
<b>Dimensions</b>	50 x 70 mm

# KSTR-IMX93

## Single Board Computer



### KSTR-IMX93 key features:

- First Linux capable Single Board Compute featuring Nordic Semiconductor solutions
- All-in-one wireless solution featuring i.MX93 and nRF91, nRF53, and nRF7002
- Ultra low-power IoT platform with Li-Ion battery support
- Versatile connectivity options: Wi-Fi, Thread, Bluetooth, Zigbee, and LTE




#### KSTR Specifications

<b>SoC</b>	NXP i.MX93 <ul style="list-style-type: none"> <li>• 1-2 core Arm® Cortex®-A55 1.7 GHz CPU</li> <li>• 1 core Arm® Cortex®-M33 250 MHz CPU</li> </ul>
<b>Nordic solutions</b>	nRF5340 nRF9161 nRF7002
<b>Memory</b>	LPDDR4 (512 MB, 1 GB or 2 GB) Up to 128 GB eMMC uSD card slot
<b>Ethernet</b>	1x 1 Gbit/s RJ-45 1x 1 Gbit/s with RGMII interface
<b>USB</b>	USB 2.0 OTG Type-C
<b>Wireless connectivity</b>	LTE Cat-M1 / NB-IoT WiFi 6 2.4 GHz and 5 GHz Bluetooth 5.4 802.15.4 Thread DECT NR+ GNSS built in E-SIM / Soft SIM
<b>Features</b>	MIPI-DSI MIPI-CSI2 2x CAN-FD transceiver 4x UART 3x I2C 1x SPI 4x ADC up to 37x i.MX93 GPIO up to 15x nRFxx GPIO
<b>Software support</b>	i.MX93: <ul style="list-style-type: none"> <li>• Linux 6.1 &amp; 6.5, U-Boot, Yocto, Buildroot, Ubuntu,</li> <li>• FreeBSD (on request), Zephyr RTOS (integrated M33 core)</li> </ul> nRFxx: <ul style="list-style-type: none"> <li>• Zephyr RTOS</li> </ul>
<b>Power</b>	5V USB Type-C External Li-Ion battery with charging, charge level and temperature monitoring support PoE IEEE 802.3af
<b>Dimensions</b>	50 x 70 mm



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# Eval Kits and Accessories Overview

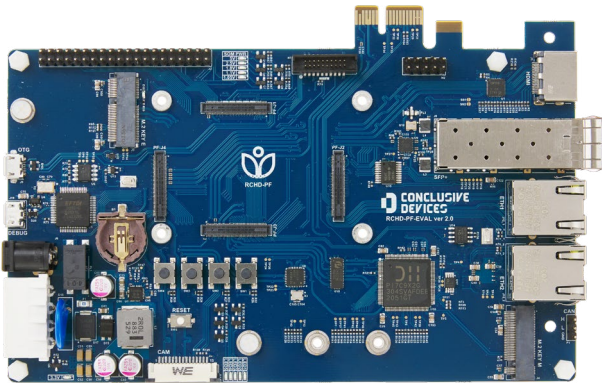
Product	Description
<b>RCHD-PF-EVAL</b> 	Evaluation Board Compatible with an entire RCHD-PF System On Module family
<b>ETH-1000-T1</b> 	1 Gbit/s RJ-45 to 1000BASE-T1 Automotive Single Pair Ethernet media converter
<b>ETH-SFP-LTE</b> 	Linux-powered SFP form factor LTE to SFP bridge

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# RCHD-PF-EVAL

## Evaluation Board



### RCHD-PF-EVAL key features:

- Compatible with an entire RCHD-PF System On Module family
- Includes standard peripheral connectors and can be placed inside a PC using the PCIe

#### RCHD-PF-EVAL Specifications

<b>SoM</b>	Supports the whole RCHD-PF family of products
<b>Memory</b>	Provided by the SoM
<b>Mass storage</b>	1x M.2 Key-M NVMe
<b>Ethernet</b>	1x 10 Gbit/s SFP+ 2x 1 Gbit/s RJ-45
<b>PCIe</b>	1x PCIe 2.0 x1 M.2 Key-M 1x PCIe 2.0 x1 M.2 Key-E 1x PCIe x1 edge card connector (device mode)
<b>USB</b>	1x micro USB-AB 2.0 OTG 1x micro USB-B with 4 virtual COM ports
<b>Debug</b>	Conclusive Developer Connector providing access to: <ul style="list-style-type: none"><li>• System UART</li><li>• JTAG port</li><li>• System I2C bus</li></ul> 1x micro USB-B with 4 virtual port com Microchip FlashPro5/FlashPro6 Programmer Connector
<b>Software support</b>	Determined by the SoM
<b>Power supply</b>	2.5 x 5.5 mm DC Jack barrel connector, 12V DC, 7.5 A 1x Molex power input
<b>Additional features</b>	1x CR1220 battery holder for RTC upkeep 1x HDMI video output 4x general purpose user-programmable switch 1x Raspberry Pi compatible GPIO header Power domains status LEDs 5x user programmable LEDs MIPI-DSI Camera header, Raspberry Pi compatible CAN bus
<b>Dimensions</b>	11.15 mm x 175.7 mm

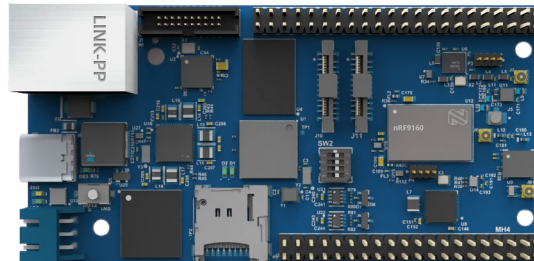


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# ETH-1000-T1

## Automotive Media Converter



### ETH-1000-T1 key features:

- 1 Gbit/s RJ-45 to 1000BASE-T1 Automotive Single Pair Ethernet media converter
- PoE or USB Type-C power input
- USB configuration interface
- On-board configuration switches

#### ETH-1000-T1 Specifications

<b>Ethernet</b>	10/100/1000 Mbit/s RJ-45 1000BASE-T 100/1000 Mbit/s 1000BASE-T1
<b>Features</b>	Configuration interface via USB port On-board configuration switches
<b>Power</b>	IEEE 802.3af PoE in USB Type-C
<b>Form factor</b>	84 x 47 x 26 mm (LxWxH)

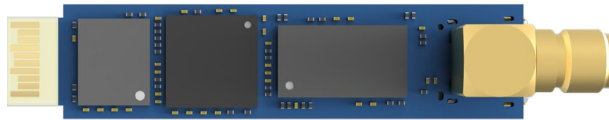


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# ETH-SFP-LTE

Linux powered SFP form factor

LTE to SFP bridge



## ETH-SFP-LTE key features:

- Linux powered SFP form factor
- LTE to SFP bridge
- Remote management of network infrastructure
- Emergency access to provisioned network devices
- Maintenance automation
- Network performance monitoring

### ETH-SFP-LTE Specifications

<b>SoC</b>	LS1012A - 1 core Arm® Cortex®-A53 1.0 GHz
<b>Memory</b>	DDR3L - 1 GB or 2 GB Up to 4 GB eMMC
<b>Ethernet</b>	SFP up to 2.5 Gbit/s
<b>Wireless connectivity</b>	LTE Cat-M1 / NB-IoT DECT NR+ GNSS built in eSIM / SoftSIM
<b>Features</b>	USB Serial port SMA LTE Antenna connector
<b>Software support</b>	Linux 6.1 & 6.5 U-Boot Yocto Buildroot Ubuntu
<b>Power</b>	3.3 V via SFP connector
<b>Form factor</b>	SFP module



visit product  
website

# Custom PCB Design and Manufacturing

Need a fully custom embedded solution made from scratch? Not a problem! We'll handle everything - from need assessment to first prototype, production runs, testing and QA. Be sure to check our [software development](#) offer - we can deliver a turn-key product tailored to your needs.



## 1. Customize our board

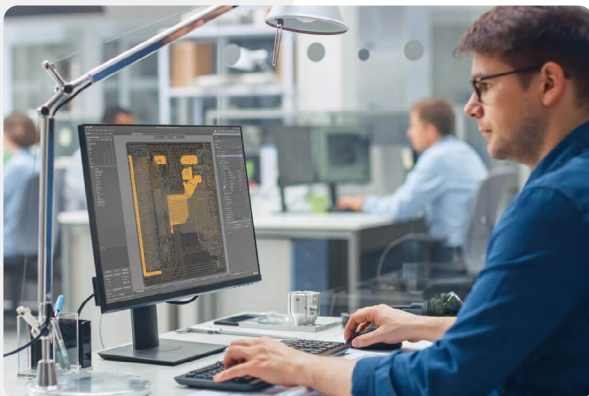
Do you like one of our products, but absolutely need a feature? Not an issue! We fully own our designs, and we can customize them to deliver anything you need.

We design our products with extensive customization in mind, so they're very flexible - from chip to RAM, from board dimensions to power sections. r projec



## 2. Develop your existing project

Do you have a custom project you'd like to upgrade or maintain? Or maybe you're stuck in development of your dream solution, and searching for someone to put it back on track? Get in touch! We're experienced in working with the most demanding client solutions and resolving the most complex issues.roject forward!



## 3. Fully custom embedded solution

Looking for a one-stop-shop to provide you with a full design and manufacturing embedded hardware pipeline, from concept to market? You've come to the right place.

We'll handle everything - from need assessment to first prototype, production runs, testing and QA. Be sure to check our software development offer - we can deliver a turn-key product tailored to your needs.

# Conclusive Engineering Profile

Conclusive was founded in 2018 by Jakub Klama and Wojciech Kloska to merge their collective expertise in embedded systems. Today the heart of our company consists of over 30 exceptionally talented and experienced engineers. Our expertise spans across all frontiers of embedded system development, and allows us to adapt to most demanding endeavors.

Over the years, we've delivered crucial, mission-critical systems to the biggest global companies. You can find the fruit of our work in the fields of transportation, computation, data storage, and more. We've always delivered top notch products, and take pride in their flawless and infallible performance.

## Technology partners



## Our services

From device driver development to embedded systems design and manufacturing



Custom PCB Design  
and Manufacturing



Operating Systems  
and Bootloaders



Device Drivers Development



Application layer  
and middleware



Firmware Development

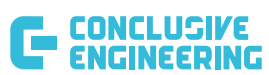
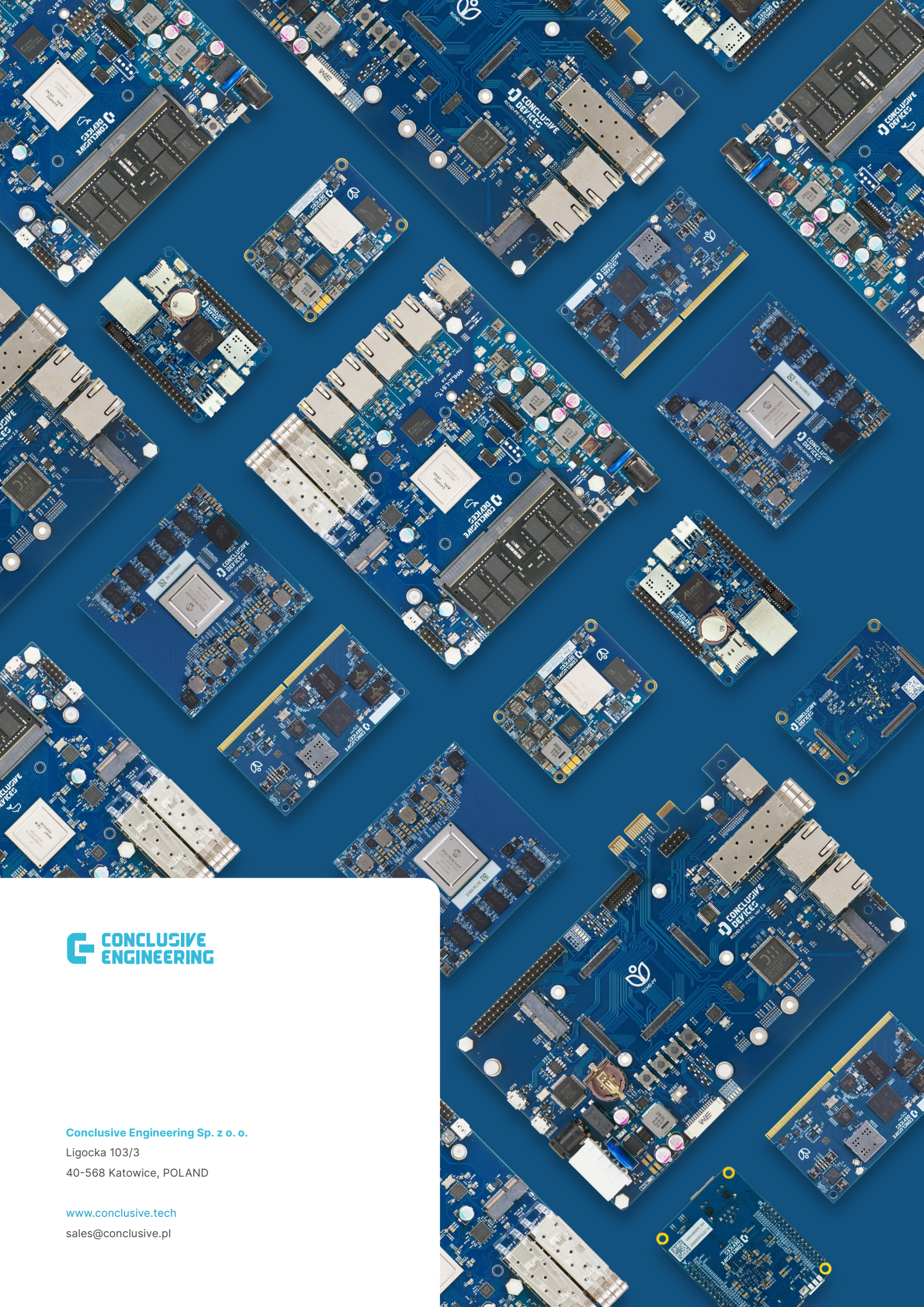


Edge Computing, AI  
and Machine Learning



Debugging and profiling





**Conclusive Engineering Sp. z o. o.**

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