

ICOM-SC4

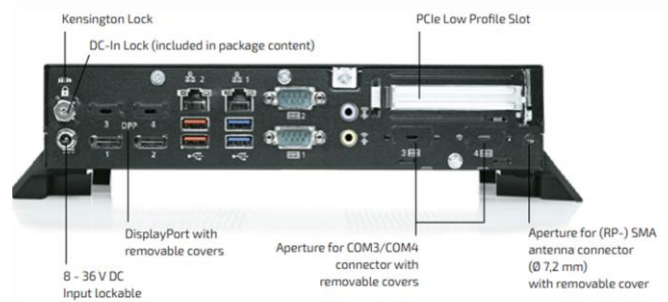
Embedded Box AMD Ryzen™ System



ICOM-SC4

PRODUCT HIGHLIGHTS

- ▶ Compact 250 x 52 x 191 mm Mini-ITX embedded PC system
- ▶ AMD Ryzen™ Embedded R1606G SoC
- ▶ Integrated AMD Radeon™ Vega Graphics
- ▶ 2 x DDR4 SO-DIMM up to 32GB
- ▶ Front & Rear USB ports
- ▶ Up to 4 x Display ports
- ▶ Dual Gigabyte LAN ports
- ▶ 1 x Low Profile PCIe x4, 2 x M.2 expansion & 1 x Mini-PCIe slots
- ▶ Choice of Horizontal or Vertical operation plus Wallmount bracket



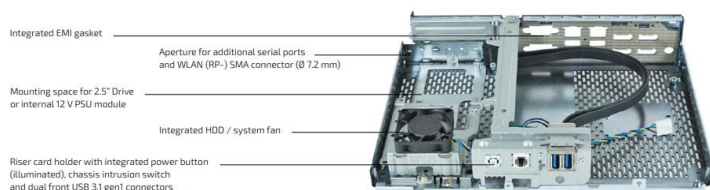
TECHNICAL INFORMATION

PROCESSOR	AMD Embedded R1606G SoC (Other processor options available, please contact us for more details)
CHIPSET	SoC
BIOS	AMI Aptio 5.x (UEFI) BIOS
MEMORY	Two DDR4 3200MHz SO-DIMM up to 32GB
WATCHDOG	2-Level WD (BIOS Boot WD / OS WD)
STORAGE	1 x 2.5" HDD/SSD drive bay 2 x Serial ATA (SATA) III 600 Interface (up to 6Gbit/s), NCQ, AHCI
EXPANSION SLOTS	1 x M.2 PCIe x2 (Key-M: 2230/2242/2280) 1 x M.2 PCIe x4 (Key B: 2242/2252/2260/2280) 1 x Mini-PCIe (half-size/full-size) 1 x PCIe x4
POWER SUPPLY	External/Internal DC-In 8-36 V (DC Jack/4-Pin) Optional 65W AC adapter
AUDIO	Realtek ALC256
ETHERNET	2 x Intel® i210LM with 10/100/1000 MBit/s
OPERATING SYSTEMS SUPPORTED	Windows 10 Pro 64-bit Windows 10 IoT Linux
GRAPHICS CONTROLLER	Integrated AMD Radeon™ Vega Graphics
DISPLAY	Up to 4 x DP V.1.4 (thereof 2 x DP++) 1 x embedded DP (eDP V1.4; supporting 4K resolutions) 1 x Dual-Channel 24bit LVDS (AMD R-Series: 1x DP + 1x LVDS + 1x eDP, 2x DP + 1x LVDS or eDP, 3x DP)
REAR I/O	1 x DC-in jack 2 x RS232/422/485 COM 4 x Display Port 2 x LAN 2 x USB 3.1 Gen1 2 x USB3.1 Gen2 Audio
FRONT CHASSIS CONNECTORS	1 x Power switch 2 x USB
ENVIRONMENT	Passive heatsink (fanless): -10 °C ~ +35 °C (max. 15 W TDP, vertical/horizontal position) -10 °C ~ +40 °C (max. 12 W TDP, vertical position only) Active heatsink (with Fan): -10 °C ~ +45 °C (max. 35 W TDP, vertical/horizontal position) 5 % - 85 % relative humidity (non-condensing)
COMPLIANCE	CE Class B, Industrial Immunity (EN 61000-6-2)

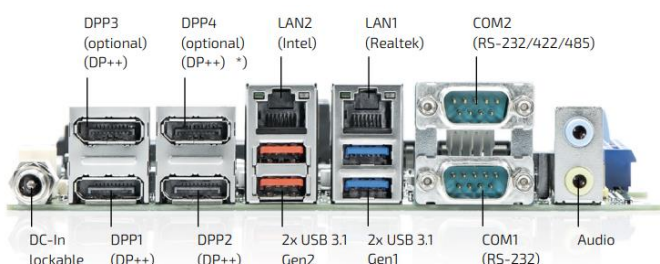
TECHNICAL INFORMATION (CONTINUED)

COOLING	1 x HDD/SSD System fan MTBF: 70.000 hours @ 40 °C Operating Temperature: -10 °C – 70 °C PWM (4 pin), 40 x 40 x 10mm 1750 – 5.500 rpm (nominal) Two ball bearing
MECHANICAL	Mini-ITX form factor system Dimensions: 250 x 52 x 191 mm (W x H x D) Colour: Black
OPTIONS	Active cooler AC Adapter 19V / 3.42A, 65W - w/o power cord Internal 12V 65W PSU PCIe riser card Serial port cable Mini-PCIe to M.2 Wi-Fi adapter Infineon SLB9670, TPM V2.0 (TCG compliant) TPM module Intel® AC9260 WLAN/Bluetooth module (w/o antennas)

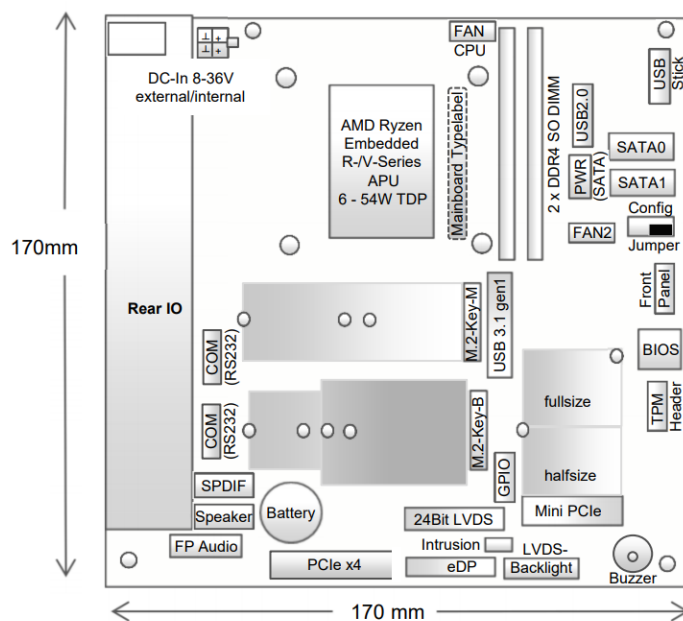
CHASSIS DESIGN



MOTHERBOARD REAR I/O CONFIGURATION



BLOCK DIAGRAM



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