

# ICOM-SC5

## Embedded Box AMD Ryzen™ System

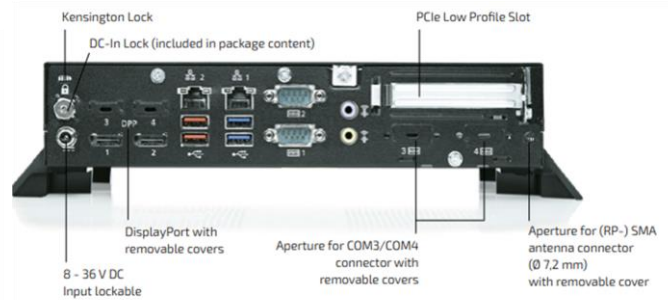
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# ICOM-SC5

## PRODUCT HIGHLIGHTS

- ▶ Compact 250 x 52 x 191 mm Mini-ITX embedded PC system
- ▶ AMD Ryzen™ Embedded AMD Embedded V1807B 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



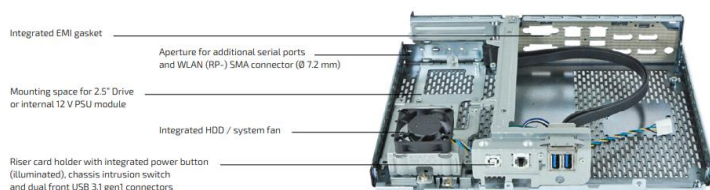
## TECHNICAL INFORMATION

|                                    |                                                                                                                                                                                                                                                                                                          |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PROCESSOR</b>                   | AMD Embedded V1807B SoC<br>(Other processor options available, please contact us for more details)                                                                                                                                                                                                       |
| <b>CHIPSET</b>                     | SoC                                                                                                                                                                                                                                                                                                      |
| <b>BIOS</b>                        | AMI Aptio 5.x (UEFI) BIOS                                                                                                                                                                                                                                                                                |
| <b>MEMORY</b>                      | Two DDR4 3200MHz SO-DIMM up to 32GB                                                                                                                                                                                                                                                                      |
| <b>WATCHDOG</b>                    | 2-Level WD (BIOS Boot WD / OS WD)                                                                                                                                                                                                                                                                        |
| <b>STORAGE</b>                     | 1 x 2.5" HDD/SSD drive bay<br>2 x Serial ATA (SATA) III 600 Interface (up to 6Gbit/s), NCQ, AHCI                                                                                                                                                                                                         |
| <b>EXPANSION SLOTS</b>             | 1 x M.2 PCIe x2 (Key-M: 2230/2242/2280)<br>1 x M.2 PCIe x4 (Key B: 2242/2252/2260/2280)<br>1 x Mini-PCIe (half-size/full-size)<br>1 x PCIe x4                                                                                                                                                            |
| <b>POWER SUPPLY</b>                | External/Internal DC-In 8-36 V (DC Jack/4-Pin)<br>Optional 65W AC adapter                                                                                                                                                                                                                                |
| <b>AUDIO</b>                       | Realtek ALC256                                                                                                                                                                                                                                                                                           |
| <b>ETHERNET</b>                    | 2 x Intel® i210LM with 10/100/1000 MBit/s                                                                                                                                                                                                                                                                |
| <b>OPERATING SYSTEMS SUPPORTED</b> | Windows 10 Pro 64-bit<br>Windows 10 IoT<br>Linux                                                                                                                                                                                                                                                         |
| <b>GRAPHICS CONTROLLER</b>         | Integrated AMD Radeon™ Vega Graphics                                                                                                                                                                                                                                                                     |
| <b>DISPLAY</b>                     | Up to 4 x DP V.1.4 (thereof 2 x DP++)<br>1 x embedded DP (eDP V1.4; supporting 4K resolutions)<br>1 x Dual-Channel 24bit LVDS<br>(AMD V-Series: V-Series: 2x DP + 1x LVDS + 1x eDP, 3x DP + 1x LVDS or eDP, 4x DP)                                                                                       |
| <b>REAR I/O</b>                    | 1 x DC-in jack<br>2 x RS232/422/485 COM<br>4 x Display Port<br>2 x LAN<br>2 x USB 3.1 Gen1<br>2 x USB3.1 Gen2<br>Audio                                                                                                                                                                                   |
| <b>FRONT CHASSIS CONNECTORS</b>    | 1 x Power switch<br>2 x USB                                                                                                                                                                                                                                                                              |
| <b>ENVIRONMENT</b>                 | Passive heatsink (fanless):<br>-10 °C ~ +35 °C (max. 15 W TDP, vertical/horizontal position)<br>-10 °C ~ +40 °C (max. 12 W TDP, vertical position only)<br>Active heatsink (with Fan):<br>-10 °C ~ +45 °C (max. 35 W TDP, vertical/horizontal position)<br>5 % - 85 % relative humidity (non-condensing) |
| <b>COMPLIANCE</b>                  | CE Class B, Industrial Immunity (EN 61000-6-2)                                                                                                                                                                                                                                                           |

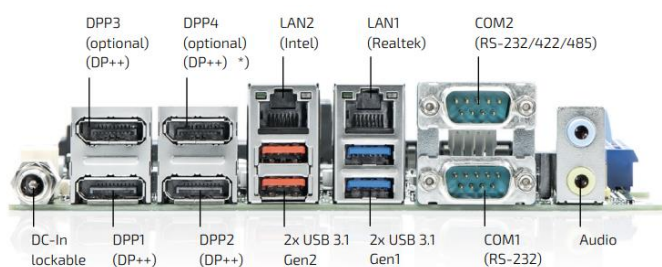
## TECHNICAL INFORMATION (CONTINUED)

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

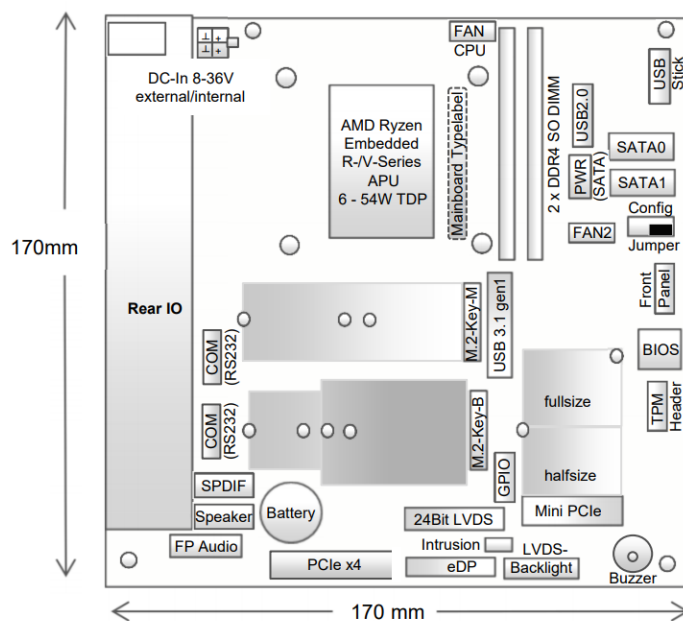
## CHASSIS DESIGN



## MOTHERBOARD REAR I/O CONFIGURATION



## BLOCK DIAGRAM



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