

# ICOM2501

Industrial 2U Rackmount Xeon 1<sup>st</sup>/2<sup>nd</sup> Gen System

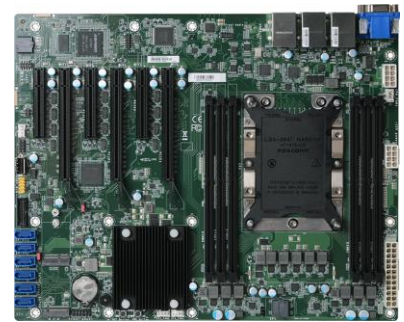
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# ICOM2501

## PRODUCT HIGHLIGHTS

- ▶ 2U 19" 20.80" Deep Rackmount system with 7 x low profile expansion slots
- ▶ Life Cycle Support Until Q3' 30
- ▶ Industrial motherboard based solution
- ▶ Supports 1<sup>st</sup>/2<sup>nd</sup> Gen Intel® Xeon® Scalable Family with Intel® C621 chipset
- ▶ 6 DDR4 RDIMM up to 192GB
- ▶ Motherboard expansion slots: 3 PCIe x16, 3 PCIe x8 (share w/ PCIe x16), 2 M.2
- ▶ Rich I/O: 2 Intel GbE, 1 COM, 6 SATA 3, 5 USB 2.0, 6 USB 3.1 Gen 1, 6 x SATA 3.0, supports RAID 0/1/5/10



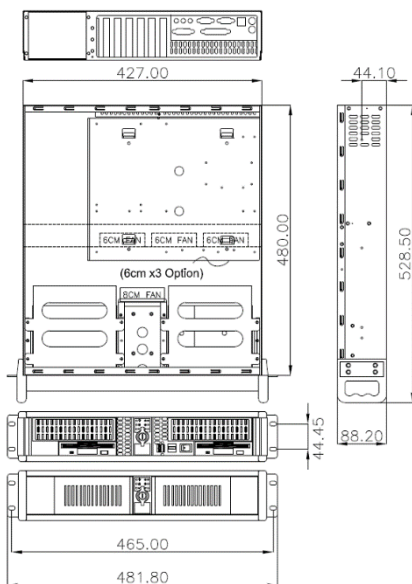
## TECHNICAL INFORMATION

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| <b>PROCESSOR</b>            | <p>1st Generation Intel® Xeon® Scalable Processor Family, LGA 3647 Socket:</p> <p>Intel® Xeon® Platinum 8160T (24 Cores, 27.5M Cache, up to 3.7 GHz); 150W</p> <p>Intel® Xeon® Gold 6138T (20 Cores, 27.5M Cache, up to 3.7 GHz); 125W</p> <p>Intel® Xeon® Gold 6138 (20 Cores, 27.5M Cache, up to 3.7 GHz); 125W</p> <p>Intel® Xeon® Gold 6130T (16 Cores, 22M Cache, up to 3.7 GHz); 125W</p> <p>Intel® Xeon® Gold 6130 (16 Cores, 22M Cache, up to 3.7 GHz); 125W</p> <p>Intel® Xeon® Gold 6126T (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W</p> <p>Intel® Xeon® Gold 6126 (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W</p> <p>Intel® Xeon® Gold 5120T (14 Cores, 19.25M Cache, up to 3.2 GHz); 105W</p> <p>Intel® Xeon® Gold 5119T (14 Cores, 19.25M Cache, up to 3.2 GHz); 85W</p> <p>Intel® Xeon® Gold 5118 (12 Cores, 16.5M Cache, up to 3.2 GHz); 105W</p> <p>Intel® Xeon® Silver 4116T (12 Cores, 16.5M Cache, up to 3.0 GHz); 85W</p> <p>Intel® Xeon® Silver 4116 (12 Cores, 16.5M Cache, up to 3.0 GHz); 85W</p> <p>Intel® Xeon® Silver 4114T (10 Cores, 13.75M Cache, up to 3.0 GHz); 85W</p> <p>Intel® Xeon® Silver 4110 (8 Cores, 11M Cache, up to 3.0 GHz); 85W</p> <p>Intel® Xeon® Silver 4109T (8 Cores, 11M Cache, up to 3.0 GHz); 70W</p> <p>Intel® Xeon® Bronze 3106 (8 Cores, 11M Cache, 1.7 GHz); 85W</p> <p>2nd Generation Intel® Xeon® Scalable Processor Family, LGA 3647 Socket:</p> <p>Intel® Xeon® Gold 6252N (24 Cores, 35.75M Cache, up to 3.6 GHz); 150W</p> <p>Intel® Xeon® Gold 6238T (22 Cores, 30.25M Cache, up to 3.7 GHz); 125W</p> <p>Intel® Xeon® Gold 6230T (20 Cores, 27.5M Cache, up to 3.9 GHz); 125W</p> <p>Intel® Xeon® Gold 6230N (20 Cores, 27.5M Cache, up to 3.5 GHz); 125W</p> <p>Intel® Xeon® Gold 6230 (20 Cores, 27.5M Cache, up to 3.9 GHz); 125W</p> <p>Intel® Xeon® Gold 6226 (12 Cores, 19.25M Cache, up to 3.7 GHz); 125W</p> <p>Intel® Xeon® Gold 5220T (18 Cores, 24.75M Cache, up to 3.9 GHz); 105W</p> <p>Intel® Xeon® Gold 5218T (16 Cores, 22M Cache, up to 3.8 GHz); 105W</p> <p>Intel® Xeon® Gold 5218N (16 Cores, 22M Cache, up to 3.7 GHz); 110W</p> <p>Intel® Xeon® Gold 5215 (10 Cores, 13.75M Cache, up to 3.4 GHz); 85W</p> <p>Intel® Xeon® Silver 4216 (16 Cores, 22M Cache, up to 3.2 GHz); 100W</p> <p>Intel® Xeon® Silver 4215 (8 Cores, 11M Cache, up to 3.5 GHz); 85W</p> <p>Intel® Xeon® Silver 4214 (12 Cores, 16.5M Cache, up to 3.2 GHz); 85W</p> <p>Intel® Xeon® Silver 4210 (10 Cores, 13.75M Cache, up to 3.2 GHz); 85W</p> <p>Intel® Xeon® Silver 4209 (8 Cores, 11M Cache, up to 3.2 GHz); 70W</p> |
| <b>CHIPSET</b>              | Intel® C621 Chipset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>MEMORY</b>               | Six 288-pin RDIMM up to 192GB, Single Channel DDR4 up to 2933MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>BIOS</b>                 | AMI SPI 128Mbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>STORAGE</b>              | <p>Supports 2 x 5.25" SATA drive bays &amp; 2 x 3.5" drive bays</p> <p>Supports 6 x SATA3.0 &amp; RAID 0/1/5/10</p> <p>Optional removable hard disk drives or solid state disks</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>OPTICAL</b>              | DVD±RW (±R DL) / DVD-RAM drive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>EXPANSION SLOTS</b>      | <p>Chassis supports 7 x low profile chassis expansion slots</p> <p>Motherboard expansion slots: 3 x PCIe x16 (Gen 3), 3 x PCIe x8 (Gen 3) (share w/PCIe x16)</p> <p>1 x M.2 Key 2280 (PCIe/SATA Gen 3 x4 NVMe), 1 x M.2 E Key 2230 (USB 2.0/PCIe Gen 3 x2)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>POWER SUPPLY OPTIONS</b> | 400W ~ 600W 90~250VAC, DC 12~48V, Redundant Power Supplies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AUDIO</b>                | Realtek ALC888S-VD2-GR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ETHERNET</b>             | <p>2 x Intel® I210AT PCIe (10/100/1000Mbps)</p> <p>IPMI: RTL8211F</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## TECHNICAL INFORMATION (CONTINUED)

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|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OPERATING SYSTEMS SUPPORTED</b>              | Windows 10 IoT Enterprise LTSB RS5 64-bit<br>Windows Server 2019<br>Windows Server 2016<br>Linux                                                                                                                                      |
| <b>DISPLAY</b>                                  | 1 x VGA                                                                                                                                                                                                                               |
| <b>MULTI-DISPLAY OUTPUTS</b>                    | N/A                                                                                                                                                                                                                                   |
| <b>REAR I/O PORTS</b>                           | 2 x GbE (RJ-45)<br>1 x dedicated IPMI LAN (opt., MOQ required)<br>1 x RS-232 (DB-9)<br>4 x USB 3.1 (Gen1)<br>2 x USB 2.0 stack (opt., MOQ required w/ RJ45+USB2.0 stack)<br>1 x VGA                                                   |
| <b>OPTIONAL PORT EXPANSION FROM MOTHERBOARD</b> | 2 x USB 2.0 header (2 x USB 2.0)<br>1 x USB 2.0 vertical Type A<br>1 x USB 3.1 Gen 1 header (2 x USB 3.1 Gen 1)                                                                                                                       |
| <b>FRONT CHASSIS CONNECTORS</b>                 | 2 x USB                                                                                                                                                                                                                               |
| <b>DRIVE BAYS</b>                               | 2x 5.25" SATA & 2 x 3.5" drive bays                                                                                                                                                                                                   |
| <b>MOTHERBOARD MTBF</b>                         | 558,025 hrs @ 25°C; 339,879 hrs @ 45°C ; 224,136 hrs @ 60°C<br>With IPMI-Mgmt: 510,709 hrs @ 25°C; 306,113 hrs @ 45°C ; 200,130 hrs @ 60°C<br>Calculation Model: Telcordia Issue 4<br>Environment: GB, GC - Ground Benign, Controlled |
| <b>ENVIRONMENT</b>                              | Operating: 0 to 60°C<br>Storage: -30 to 60°C with RTC Battery; -40 to 85°C without RTC Battery                                                                                                                                        |
| <b>COOLING</b>                                  | 2x replaceable air filters<br>1x 8cm cooling fan<br>3x 6cm optional cooling fans                                                                                                                                                      |
| <b>COLOUR</b>                                   | Black (all other optional colours are available upon request)                                                                                                                                                                         |
| <b>DIMENSIONS:</b>                              | 482.6 (W) x 528.3 (D) x 88.9 (H); 19" (W) x 20.8 (D) x 3.5" (H)                                                                                                                                                                       |

## MECHANICAL DRAWING



## Company Address

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## MOTHERBOARD DETAILS

