

ICOM4103

Industrial 4U Rackmount 6th/7th Gen System



ICOM4103

PRODUCT HIGHLIGHTS

- ▶ 4U 19" 18.58" Deep Rackmount system
- ▶ Life Cycle Support Until Q2 2025
- ▶ Industrial motherboard based solution
- ▶ Supports Intel 6th/7th Gen processors with Intel® H110 chipset
- ▶ 2 DDR4 UDIMM up to 64GB
- ▶ Expansion for 1 PCIe x16, 1 PCIe x4, 5 PCI, 1 M.2
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 4 USB 3.1, 6 USB 2.0
- ▶ Front to back cooling with two low noise hot-swap system fans



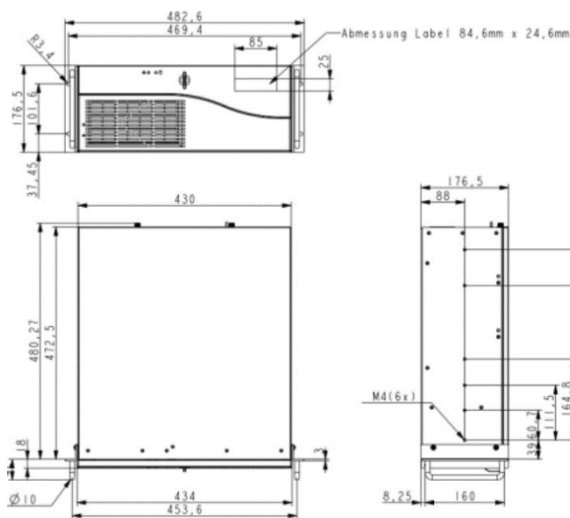
TECHNICAL INFORMATION

PROCESSOR	7th Gen Intel® Core™/Pentium®/Celeron® LGA 1151 Processors TDP up to 95W: Intel® Core™ i7-7700K (4 Cores, 8M Cache, up to 4.5 GHz); 91W (Non-LTS) Intel® Core™ i7-7700 (4 Cores, 8M Cache, up to 4.2 GHz); 65W Intel® Core™ i7-7700T (4 Cores, 8M Cache, up to 3.8 GHz); 35W Intel® Core™ i5-7500 (4 Cores, 6M Cache, up to 3.8 GHz); 65W Intel® Core™ i5-7500T (4 Cores, 6M Cache, up to 3.3 GHz); 35W Intel® Core™ i3-7101E (2 Cores, 3M Cache, 3.9 GHz); 65W Intel® Core™ i3-7101TE (2 Cores, 3M Cache, to 3.4 GHz); 35W 6th Gen Intel® Core™/Pentium®/Celeron® LGA 1151 Processors TDP up to 95W: Intel® Core™ i7-6700K (Cores, 8M Cache, up to 4.2 GHz); 91W (Non-LTS) Intel® Core™ i7-6700 (4 Cores, 8M Cache, up to 4.0 GHz); 65W Intel® Core™ i7-6700TE (4 Cores, 8M Cache, up to 3.4 GHz); 35W Intel® Core™ i5-6500 (4 Cores, 6M Cache, up to 3.6 GHz); 65W Intel® Core™ i5-6500TE (4 Cores, 6M Cache, up to 3.3 GHz); 35W Intel® Core™ i3-6101E (2 Cores, 4M Cache, 3.7 GHz); 65W Intel® Core™ i3-6101TE (2 Cores, 4M Cache, to 2.7 GHz); 35W Intel® Pentium® G4400 (2 Cores, 3M Cache, 3.3 GHz); 65W Intel® Pentium® G400TE (2 Cores, 3M Cache, 2.9 GHz); 35W Intel® Celeron® G3900 (2 Cores, 2M Cache, 2.8 GHz); 65W Intel® Celeron® G3900TE (2 Cores, 2M Cache, 2.6 GHz); 35W
CHIPSET	Intel® H110 Chipset
MEMORY	Two 288-pin UDIMM up to 64GB Dual Channel DDR4 2666MHz
BIOS	SPI 128Mbit
STORAGE	Supports 3x 5.25" SATA drive bays Supports 4 x SATA 3.0 1 x M.2 2242/2260/2280 M key (PCIe Gen3 x 4 NVMe, share with PCIe x4 slot) 1 x mSATA (Share with SATA connector) Optional removable hard disk drives or solid state disks
OPTICAL	DVD±RW (±R DL) / DVD-RAM drive
WATCHDOG TIMER	Programmable via S/W from 1 sec. to 255 sec.
EXPANSION SLOTS	1 x PCIe x16 (Gen 3) 1 x PCIe x4 (Gen 2) 5 x PCI
POWER SUPPLY OPTIONS	400W ~ 600W 90~250VAC DC 12~48V 500W Redundant Power Supplies
AUDIO	Realtek ALC888S-VD2-GR
ETHERNET	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219V PCIe (10/100/1000Mbps)
OPERATING SYSTEMS SUPPORTED	Windows 7 32/64-bit Window 8.1 64-bit Windows 10 64-bit Linux Note: 7th Gen CPU SKU ONLY support Windows 10 64-bit & Linux

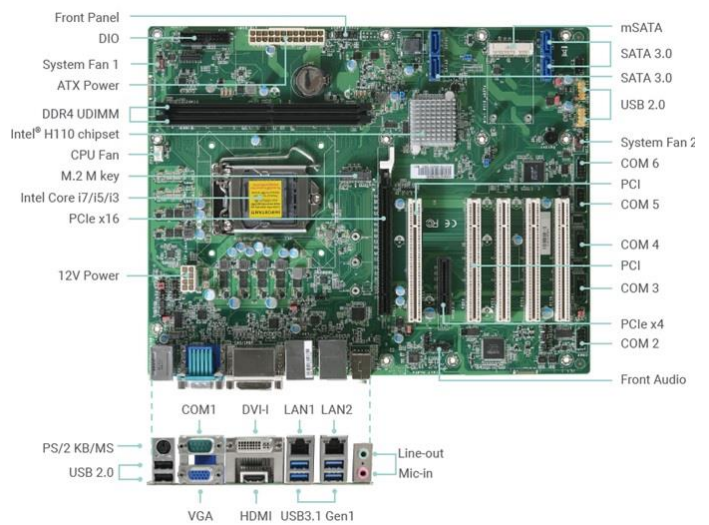
TECHNICAL INFORMATION (CONTINUED)

DISPLAY	1 x VGA resolution up to 1920x1200 @ 60Hz 1 x DVI-I (DVI-D signal) resolution up to 1920x1200 @ 60Hz 1 x HDMI1.4b resolution up to 4096x2160 @ 24Hz
MULTI-DISPLAY OUTPUTS	Supports Dual Displays: VGA + DVI-I, VGA + HDMI, DVI-I + HDMI
REAR I/O PORTS	2 x GbE (RJ-45) 1 x RS-232/422/485 (RS-232 w/power (DB-9) 4 x USB 3.1 Gen 1, 2 x USB 2.0 1 x PS/2 (mini-DIN-6) 1 x VGA, 1 x DVI-I, 1 x HDMI 1 x Line-in (opt., MOQ required), 1 x Line-out 1 x Mic-in
OPTIONAL PORT EXPANSION FROM MOTHERBOARD	1 x RS-232/422/485 (RS-232 w/ power) (2.54mm pitch) 4 x RS-232 (2.54mm pitch) 4 x USB 2.0 (2.54mm pitch) or up to 2 x Vertical USB 2.0 (type A) (opt., MOQ required)
FRONT CHASSIS CONNECTORS	2 x USB
DRIVE BAYS	3x 5.25" SATA drive bays, 1x 2.5" / 3.5" SATA drive internal
MOTHERBOARD MTBF	499,656 hrs @ 25°C; 277,331 hrs @ 45°C; 171,780 hrs @ 60°C Calculation model: Telcordia Issue 4 Environment: GB, GC – Ground Benign, Controlled
ENVIRONMENT	Operation Temperature: 0 °C to +50 °C continuous operation Storage Temperature: -20 °C to +70 °C Humidity: 10 % to 93 % @40 °C, non-condensing (Dependent on overall system specification)
VIBRATION	Operating: 10-150 Hz: 1G/3 axis Non-operating: 10-150 Hz: 2G/3 axis
COOLING	Removable air filter, Two low noise hot-swap system cooling fans
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS:	177 x 482 x 472 mm (4U x 19" x 18.58")

MECHANICAL DRAWING



MOTHERBOARD DETAILS



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