

ICOM4109

Industrial 4U Rackmount 6th/7th Gen System



ICOM4109

PRODUCT HIGHLIGHTS

- ▶ 4U 19" 18.58" Deep Rackmount system
- ▶ Life Cycle Support Until Q2 2025
- ▶ Industrial motherboard based solution, Intel® Q170 Chipset
- ▶ Supports Intel® 6th/7th Generation Core™ / Pentium® / Celeron LGA 1151 Socket Processors
- ▶ 4 DDR4 DIMM up to 64GB
- ▶ Expansion for 2 PCIe x16, 2 PCIe x4, 3 PCI, 1 x M.2
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 6 USB 3.0, 8 USB 2.0
- ▶ Front to back cooling with two low noise hot-swap system fans



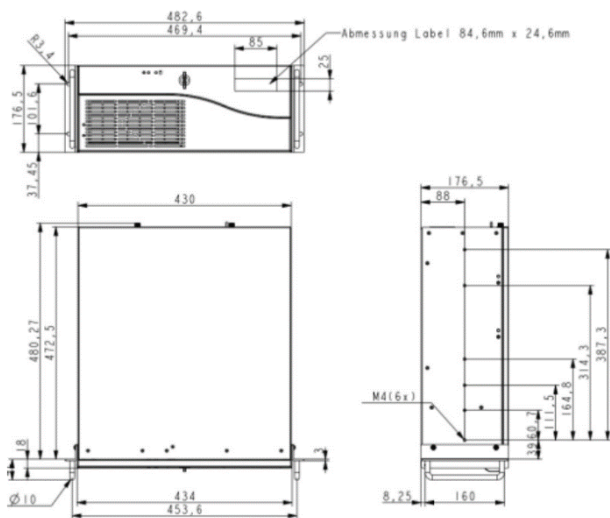
TECHNICAL INFORMATION

PROCESSOR	6 th /7 th Generation Intel® Core™/Pentium®/Celeron® LGA 1151 Socket Processors with TDP up to 95W
CHIPSET	Intel® Q170 Chipset
MEMORY	Four 288-pin DIMM up to 64GB Dual Channel DDR4 2133/2400MHz
BIOS	SPI 128Mbit
STORAGE	Supports 3x 5.25" SATA drive bays Supports 5 x SATA3.0 Supports RAID 0/1/5/10 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	2 x PCIe x16 (Gen 3) (1 x16 signal or 2 x8 signals) 2 x PCIe x4 (Gen 3) 3 x PCI 1 x M.2 2260/2280 M Key (SATA3.0/PCIe Gen 3 x2 NVMe)
POWER SUPPLY OPTIONS	400W ~ 600W 90~250VAC DC 12~48V 500W Redundant Power Supplies
AUDIO	Realtek ALC888S-VD2-GR
ETHERNET	1 x Intel® I210AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM PCIe with iAMT11.0 (10/100/1000Mbps) (only Core i7/i5 supports iAMT)
OPERATING SYSTEMS SUPPORTED	Windows 10 64-bit Windows 7 32/64-bit Windows 8.1 64-bit Linux (Note: 7 th Gen CPUs only support Windows 10 64-bit & Linux)
DISPLAY	1 x VGA 1 x DVI-I (DVI-D signal) 1 x HDMI VGA: resolution up to 1920x1200 @ 60Hz DVI-I: resolution up to 1920x1200 @ 60Hz HDMI: resolution up to 4096x2160 @ 24Hz
MULTI-DISPLAY OUTPUTS	Supports Triple Displays: VGA + DVI-I (DVI-D signal) + HDMI

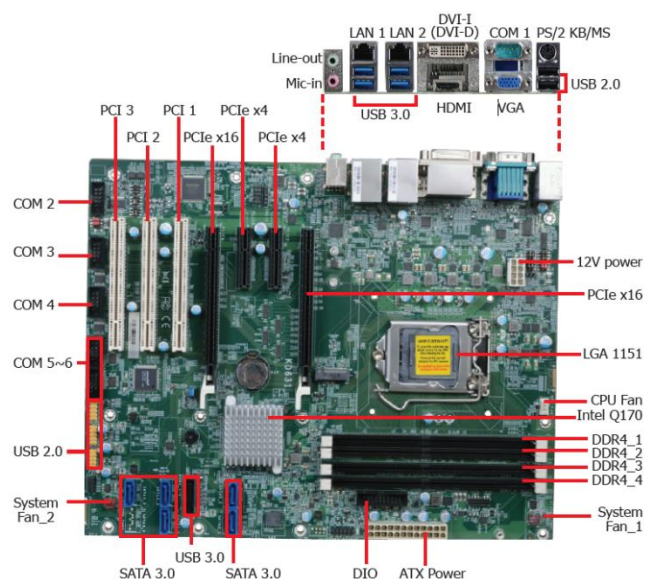
TECHNICAL INFORMATION (CONTINUED)

REAR I/O PORTS	2 x GbE (RJ-45) 1 x RS-232/422/485 (RS-232 w/power (DB-9) 4 x USB 3.0 2 x USB 2.0 1 x PS/2 (mini-DIN-6) 1 x VGA 1 x DVI-I (DVI-D signal) 1 x HDMI 1 x Line-out, 1 x Mic-in, 1 x Line-in (opt., MOQ required)
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) 2 x USB 3.0 (2.00mm pitch) 6 x USB 2.0 (2.54mm pitch) or 4 x USB 2.0 (2.54mm pitch) + 1 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	378,982 hrs @ 25°C; 218,492 hrs @ 45°C; 139,687 hrs @ 60°C Calculation model: Telcordia Issue 2 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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