

ICOM4104

Industrial 4U Rackmount 6th/7th Gen System



ICOM4104

PRODUCT HIGHLIGHTS

- ▶ 4U 19" 18.58" Deep Rackmount system
- ▶ 7 ~ 10 year product availability
- ▶ PICMG 1.3 based solution
- ▶ Supports Intel 6th/7th Core i3/i5/i7 processors
- ▶ Delivers up to 32GB DDR4 non-ECC Memory
- ▶ Expansion for up to 13 plug-in cards
- ▶ Flexible PCI Express configuration provides up to 36 lanes
- ▶ Front to back cooling
- ▶ Low noise design (<= 35 dbA)



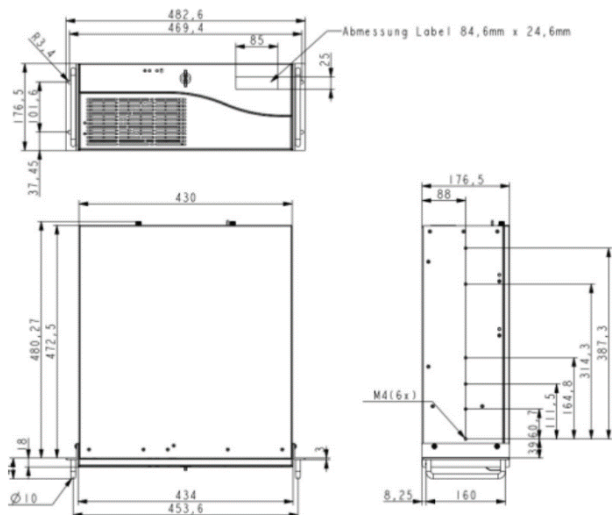
TECHNICAL INFORMATION

PROCESSOR	Intel® Core™ i3/i5/i7 processors up to 3.4 GHz (35~65W) with 8MB Cache LGA-1151 socket DMI x4 Link: 5.0GT/s Support Intel® Turbo Boost , Hyper-Threading, Virtualization, Thermal Monitoring, Trusted Execution and SpeedStep Technology (processor dependant)
CHIPSET	Intel® Q170 PCH
MEMORY	Supports up to 32GB DDR4 2133/1866 SDRAM on two 288-pin DIMM sockets Supports non-ECC memory
BIOS	Phoenix UEFI BIOS
STORAGE	Supports 3x 5.25" SATA drive bays RAID Options 0, 1, 5 and 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 0.5 sec. to 254.5 sec.
HARDWARE MONITORING	System monitor (Voltage, Fan speed and Temperature)
SLOT CONFIGURATIONS/OPTIONS	Option 1: 11-slot [PCIe x16 (1), PCIe x16 (2 x8 signal), PCIe x8 (4, x1 signal), PCI (3)] Option 2: 12-slot [PCIe x16 (1 x8 signal), PCIe x8 (2 x4 signal), PCIe x4 (4 x1 signal), PCI (4)] Option 3: 12-slot [PCIe x16 (1), PCIe x8 (1 x4 signal), PCI (9)] Option 4: 12-slot [PCI-X (8), PCIe x16 (1), PCI (2)] Option 5: 13-slot [PCIe x16 (1), PCIe x16 (2 x1 signal), PCIe x4 (5 x1 signal), PCI (4)] Option 6: 13-slot [PCIe x16 (1), PCIe x1 (3), PCI (8)]
POWER SUPPLY OPTIONS	400W ~ 600W 90~250VAC DC 12~48V
EMBEDDED CONTROLLER	ITE IT8528E
GPIO	On board programmable 8-bit Digital I/O
AUDIO	Intel® PCH built-in High Definition Audio up to 192-kHz 32-bit Realtek ALC886-GR HDA codec, 5.1 channels one on board audio pin header
ETHERNET	Intel® WGI219LM + WGI210AT Gigabit Ethernet controller Dual 10BASE-T / 100BASE-TX / 1000BASE-T Ethernet PCI Express x1 interface based on Gigabit Ethernet Dual RJ-45 connector with two LED indicators
KEYBOARD & MOUSE	2x USB 3.0 ports on bracket dedicated to keyboard & mouse (on bracket) 1x 10 pin box header for external PS/2 keyboard/mouse
USB	2x USB 2.0 ports (through backplane) 480Mb/s bus capable of high-speed/full-speed/low-speed data ranges 10x USB 3.0 ports on board (eight ports on board, dual ports on bracket) 5Gbps bus capable of high-speed/ full-speed/low-speed data ranges
OPERATING SYSTEMS SUPPORTED	Windows 7 Windows 10

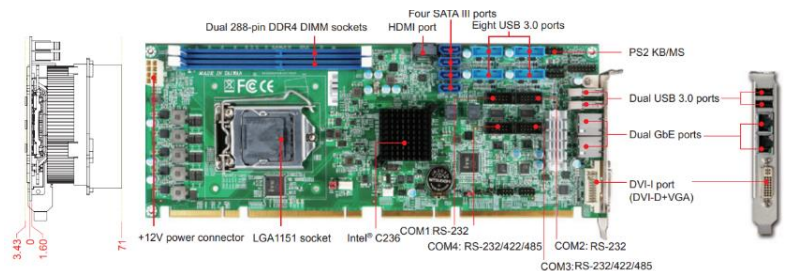
TECHNICAL INFORMATION (CONTINUED)

DISPLAY	Intel® Core™ i5/i7 processors integrated graphics engine Provides improved 3D multimedia capabilities including Microsoft DirectX 12, OCL 2.x and OpenGL 4.3/4.4
DISPLAY INTERFACE	Supports independent triple displays: CRT on bracket: Resolution up to 1920x1200 @ 60Hz DVI-D on bracket: up to 1920x1200 @ 60Hz (CRT + DVI-D on bracket by DVI-I port) HDMI: up to 4096x2160 @ 24Hz
REAR I/O PORTS FROM SINGLE BOARD COMPUTER	1x DVI-I (DVI-D+VGA adapter cable included) 2x RJ45 (10/100/1000) 2x USB 3.0 Rear 2x USB 2.0 Front
OPTIONAL PORT EXPANSION FROM SINGLE BOARD COMPUTER	2x RS232 ports 2x RS232/422/485 selectable 8x USB 3.0
FRONT CHASSIS CONNECTORS	2 x USB
DRIVE BAYS	3x 5.25" SATA drive bays 1x 2.5"/ 3.5" SATA drive internal RAID support
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



PROCESSOR BOARD DETAILS



BACKPLANE OPTIONS



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