


All systems are fully configured & integrated to our customer's specifications including:

- Processor
- Memory
- HDD/SSD/Optical
- Operating System
- Application Software
- PCI/PCIe card Installation




- Features**
- 2U 19" Rackmount (Short Depth)
  - 5 to 7 years product life
  - Front USB ports
  - Expansion for 2 PCI Express and 2 PCI cards
  - Locking door
  - Front to back cooling
  - 15.4" Deep
  - Industrial motherboard solution
  - Short delivery options available
  - Serialised and traceable
  - Fully customisable

The new ICOM204 is our most advanced, flexible and cost effective 19" 2U high short depth rack-mount computer. Specifically designed for a wide variety of applications that utilises 2 PCI Express and 2 PCI slots. It's rugged, sturdy, fully sealed and well-cooled. Manufactured from steel the chassis has been designed to withstand heavy shocks, the ingress of dust, humidity, trembling vibration, as well as extremely high operating temperatures for mission-critical environments. With many enhancements to meet the newest technology changes, the ICOM204 is the ideal choice where your application needs a rock solid and scalable computing solution. Available with motherboard options and a wide variety of power supply and drive configurations.

**ICL build all systems with full revision control (the system will not change without you knowing) and serialise all major components for traceability.**

**Specification**

**Processor**  
Intel® Core i7/i5/i3, Pentium and Celeron - 4th Generation  
Intel® Core™ processors (22nm process technology) in LGA-1150 package

**CPU Options:**  
Intel® Core™ i7-4790S (8M Cache, up to 4.0 GHz); 65W  
Intel® Core™ i5-4590S (6M Cache, up to 3.7 GHz); 65W  
Intel® Core™ i3-4360 (4M Cache, 3.7 GHz); 54W  
Intel® Pentium® G3420 (3M Cache, 3.2 GHz); 53W  
Intel® Celeron® G1820 (2M Cache, 2.7 GHz); 53W

**Chipset**  
Intel® H81 Express Chipset

**BIOS**  
AMI BIOS - 64Mbit SPI BIOS

**Memory**  
Support up to 16GB DDR3 1333/1600 SDRAM on two 240-pin DIMM sockets

**Storage Devices**  
2 SATA 3.0 ports with data transfer rate up to 6Gb/s  
2 SATA 2.0 ports with data transfer rate up to 3Gb/s  
- SATA port 5 provides adequate space for SATA DOM  
Integrated Advanced Host Controller Interface (AHCI) controller  
Optional removable hard disk drives or solid state disks

**Optical**  
DVD±RW (±R DL) / DVD-RAM drive

**Watchdog Timer**  
Software programmable from 1 to 255 seconds

**Hardware Monitoring**  
Monitors CPU/system temperature and overheat alarm  
Monitors VCore/5V/3.3V/V\_DIMM/12V/5VSB voltages and failure alarm  
Monitors CPU/system fan speed and failure alarm  
Read back capability that displays temperature, voltage and fan speed

**Slot Configurations/Options**  
1 PCIe x16 Gen 3 slot (PCIe 3.0)  
1 PCIe x4 Gen 2 slot (PCIe 2.0) - x1 signal  
2 PCI slots (PCI 2.3) -  
1 Mini PCIe slot  
- Supports USB and PCIe signals  
- Supports mSATA  
- Supports half size and/or full size Mini PCIe card

**Power Supply Options**  
150w to 500w,  
Hot-Swap Redundant  
90~250VAC  
DC 12~48V

**Audio**  
Realtek ALC886 5.1-channel High Definition Audio  
Audio outputs: Mic-in/Center+Subwoofer, line-in/surround and line out  
S/PDIF audio interface

**Ethernet**  
Intel® I210 PCI Express Gigabit Ethernet controller  
Intel® I217LM Gigabit Ethernet Phy  
Integrated 10/100/1000 transceiver  
Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

**Serial Port**  
2 DB-9 serial ports  
- Supports RS232/422/485 (RS232 and/or Power)

**Keyboard & Mouse**  
1 mini-DIN-6 port for PS/2 mouse/keyboard

**Onboard Graphics**  
Intel® HD Graphics  
Display ports: 1 HDMI, 1 DVI-I  
DVI-I: resolution up to 1920x1200 @ 60Hz  
HDMI: resolution up to 4096x2304 @ 24Hz or 2560x1600 @ 60Hz  
VGA: 24-bit, resolution up to 1920x1200 @ 60Hz  
Supports 6 Graphics Execution Units (EUs)  
Intel® Clear Video Technology  
DirectX Video Acceleration (DXVA) support for accelerating video processing

**Basic Port Overview**  
1x mini-DIN-6  
2x DB-9 serial  
1x HDMI  
1x DVI-I  
2x RJ45 LAN  
2x USB 3.0/2.0/1.1  
4x USB 2.0/1.1  
2x USB 2.0/1.1 (front)  
Line-in/Surround, Line-out, Mic-in/Center+Subwoofer jacks

**Optional Port Expansion from Motherboard**  
4x DB-9 RS232 serial  
1x parallel port

**Energy Efficient Design**  
Supports ACPI  
System Power Management  
Wake-On-Events include:  
- Wake-On-PS/2 KB/Mouse  
- Wake-On-USB KB/Mouse  
- Wake-On-LAN  
- RTC timer to power-on the system  
CPU stopped clock control  
AC power failure recovery

**Indicator**  
Power on/off x1, HDD x1

**Switch**  
Power on/off x1, System reset x1

**Power Consumption**  
49.85W with i7-4770S at 3.10GHz and 2x 2GB DDR3 DIMM

**All systems are fully configurable to meet your application**

**Operating System Support**  
Windows 8 Enterprise x86 (32-bit)  
Windows 8 Enterprise x64 (64-bit)  
Windows 7 Ultimate x86 & SP1 (32-bit)  
Windows 7 Ultimate x64 & SP1 (64-bit)  
Windows XP Professional x86 & SP3 (32-bit)  
*(based on Intel's Windows XP support list)*  
*Please call For Linux compatibility*

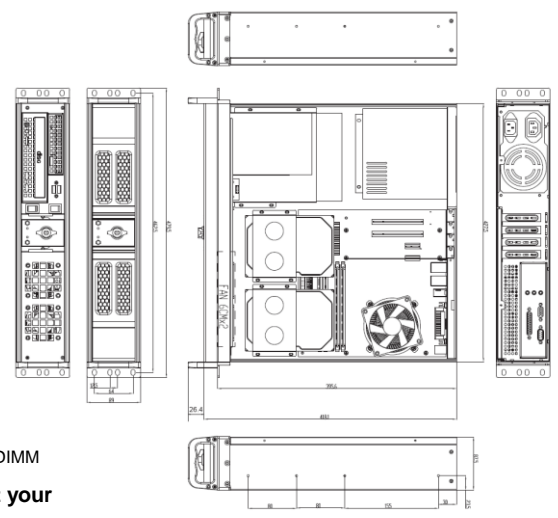
**Environment**  
Operation Temperature: 0~60 °C  
Storage Temperature: -20~85 °C  
Relative Humidity: 5~90%, non-condensing

**Cooling**  
2x Replaceable air filters  
2x 6cm cooling fans

**Colour**  
Black (all other optional colours are available upon request)

**Roadmap**  
Available until Q3 2020.  
*Additional last time purchase options available through our extended life support*  
*Contact Sales for further information*

**Dimensions**  
482.6 (W) x 395.6 (D) x 88.9 (H); 19" (W) x 15.4" (D) x 3.5" (H)



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