

ICOM706

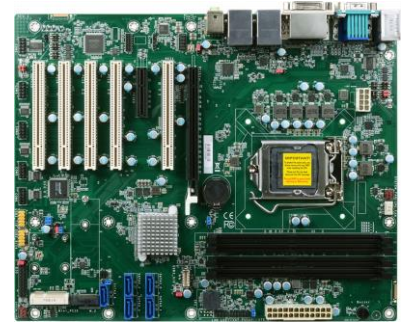
Industrial Wallmount/Desktop 8th/9th Gen System



ICOM706

PRODUCT HIGHLIGHTS

- ▶ Wallmount/Desktop ATX motherboard system
- ▶ Life Cycle Support Until Q1' 33
- ▶ Industrial motherboard based solution
- ▶ Supports Intel 8th/9th Gen processors with Intel® Q370 chipset
- ▶ 4 DDR4 DIMM up to 128GB
- ▶ Expansion for 1 PCIe x16, 1 PCIe x4, 5 PCI, 1 Mini PCIe, 1 M.2 M key
- ▶ Rich I/O: 2 Intel GbE, 6 COM, 4 USB 3.1 Gen 1, 2 USB 3.1 Gen 2, 6 USB 2.0
- ▶ 12cm ball-bearing fan with replaceable filter



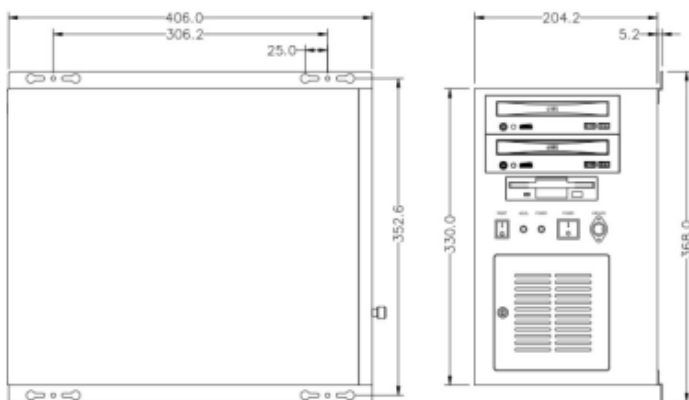
TECHNICAL INFORMATION

PROCESSOR	8th Generation Intel® Core™ /Pentium®/Celeron® LGA 1151 Processors: Intel® Core™ i7-8700K (6 Cores, 12M Cache, up to 4.7 GHz); 95W (Non-LTS) Intel® Core™ i7-8700 (6 Cores, 12M Cache, up to 4.6 GHz); 65W Intel® Core™ i7-8700T (6 Cores, 12M Cache, up to 4.0 GHz); 35W Intel® Core™ i5-8500 (6 Cores, 9M Cache, up to 4.1 GHz); 65W Intel® Core™ i5-8500T (6 Cores, 9M Cache, up to 3.5 GHz); 35W Intel® Core™ i3-8100 (4 Cores, 6M Cache, 3.6 GHz); 65W Intel® Core™ i3-8100T (4 Cores, 6M Cache, to 3.1 GHz); 35W Intel® Pentium® G5400 (2 Cores, 4M Cache, 3.7 GHz); 58W Intel® Pentium® G5400T (2 Cores, 4M Cache, 3.1 GHz); 35W Intel® Celeron® G4900 (2 Cores, 2M Cache, 3.1 GHz); 54W Intel® Celeron® G4900T (2 Cores, 2M Cache, 2.9 GHz); 35W 9th Generation Intel® Core™ LGA 1151 Socket Processors: Intel® Core™ i7-9700K (8 Cores, 12M Cache, up to 4.9 GHz); 95W Intel® Core™ i7-9700E (8 Cores, 12M Cache, up to 4.4 GHz); 65W Intel® Core™ i7-9700TE (8 Cores, 12M Cache, up to 3.8 GHz); 35W Intel® Core™ i5-9500E (6 Cores, 9M Cache, up to 4.2 GHz); 65W Intel® Core™ i5-9500TE (6 Cores, 9M Cache, up to 3.6 GHz); 35W Intel® Core™ i3-9100E (4 Cores, 6M Cache, 3.7 GHz); 65W Intel® Core™ i3-9100TE (4 Cores, 6M Cache, to 3.2 GHz); 35W
CHIPSET	Intel® Q370 Chipset
MEMORY	Four 288-pin DIMM up to 128GB Dual Channel DDR4 2400/2666MHz
BIOS	SPI 128Mbit
STORAGE	Supports 2x external 5.25", 1x external 3.5" & 1x internal 3.5" drive bays Supports 5 x SATA 3.0 1 x Mini PCIe (support mSATA), 1 x M.2 2260/2280 M key (PCIe Gen3 x 4 NVMe) Support 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	1 x PCIe x16 (Gen 3) 1 x PCIe x4 (Gen 3) 5 x PCI 1 x Mini PCIe (support mSATA) 1 x M.2 2260/2280 M key (PCIe Gen3 x 4 NVMe)
POWER SUPPLY OPTIONS	400W ~ 600W 90~250VAC DC 12~48V Redundant Power Supplies
AUDIO	Realtek ALC888
ETHERNET	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM LAN Phy with iAMT (10/100/1000Mbps) (only Core i7/i5 supports iAMT)
OPERATING SYSTEMS SUPPORTED	Windows 10 IoT Enterprise 64-bit Linux

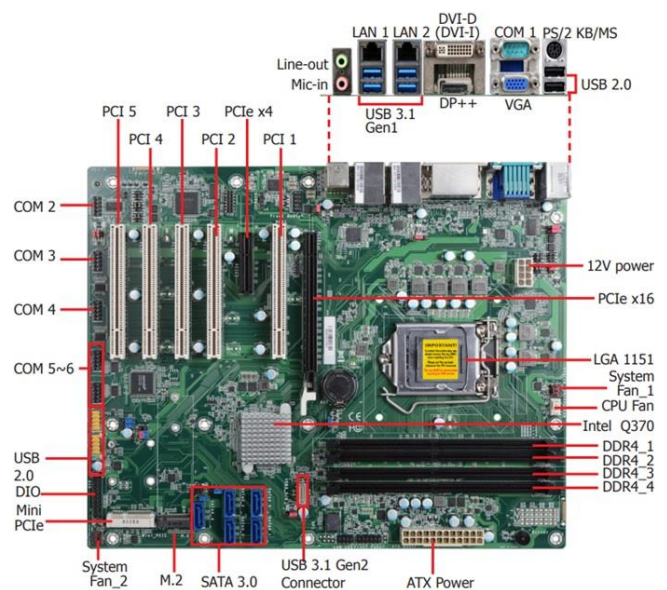
TECHNICAL INFORMATION (CONTINUED)

DISPLAY	1 x VGA resolution up to 1920x1200 @ 60Hz 1 x DVI-I (DVI-D signal) resolution up to 1920x1200 @ 60Hz 1 x DP++ resolution up to 4096x2160 @ 24Hz
MULTI-DISPLAY OUTPUTS	Supports Triple Displays: VGA + DVI-I (DVI-D signal) + DP++
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 (DVI-D signal) 2 x DP++ 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 3.1 Gen 2 (2.00mm pitch), 4 x USB 2.0 (2.54mm pitch)
FRONT CHASSIS CONNECTORS	PS/2 keyboard connector in front panel Optional USB ports
DRIVE BAYS	2x external 5.25" 1x external 3.5" 1x internal 3.5"
MOTHERBOARD MTBF	534,806 hrs @ 25°C; 301,144 hrs @ 45°C; 187,432 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)
COOLING	12cm ball-bearing fan with replaceable filter
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS:	330 x 406 x 204.2 mm (13 x 16 x 8 inches)

MECHANICAL DRAWING



MOTHERBOARD DETAILS



Company Address

Kontron UK Limited
Units 3, 4, 5, 9 & 10 New Bury Park
Marsh Lane, Easthampnett, UK
TEL: +44 (0) 1243 380780
uksales@kontron.com
www.industrial-computers.com