

ICOM182

1U 6th/7th Gen 11" Shallow Depth System



ICOM182

PRODUCT HIGHLIGHTS

- ▶ 1U Industrial rackmount system, 11" Ultra short depth
- ▶ 1 PCIe expansion slot
- ▶ Supports Intel® 6th/7th Gen processors
- ▶ Intel® Core™, Pentium®, Celeron® CPUs
- ▶ Intel® Q170 Chipset, RAID 0/1
- ▶ 2 DDR4 DIMMs up to 32GB
- ▶ 3 Display outputs: VGA, DVI-I, DP++
- ▶ I/O: 2 LAN, 4 COM, 4 USB 3.0, 4 USB 2.0
- ▶ Windows 7, 10 Pro / IoT & Linux
- ▶ CPU Life Cycle Support Until Q3 2030 (Based on Intel IOTG Roadmap)



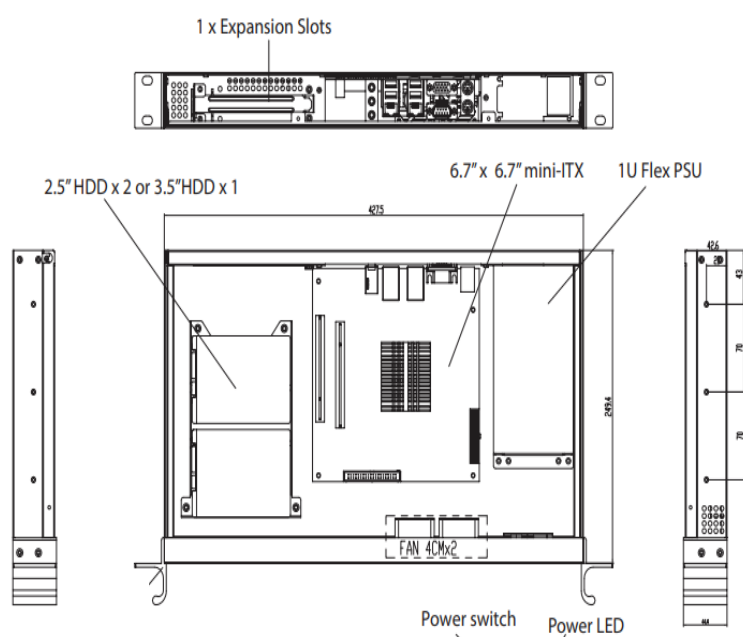
TECHNICAL INFORMATION

PROCESSOR	7th Generation Intel® Core™ Processors, LGA 1151 Socket Intel® Core™ i7-7700 Processor, Quad Core, 8M Cache, 3.6GHz (4.2GHz), 65W Intel® Core™ i5-7500 Processor, Quad Core, 6M Cache, 3.4GHz (3.8GHz), 65W Intel® Core™ i3-7101E Processor, Dual Core, 3M Cache, 3.9GHz, 65W 6th Generation Intel® Core™ Processors, LGA 1151 Socket Intel® Core™ i7-6700, Quad Core, 8M Cache, 3.4GHz (4.0GHz), 65W Intel® Core™ i7-6700TE, Quad Core, 8M Cache, 2.4GHz (3.4GHz), 35W Intel® Core™ i5-6500, Quad Core, 6M Cache, 3.2GHz (3.6GHz), 65W Intel® Core™ i5-6500TE, Quad Core, 6M Cache, 2.3GHz (3.3GHz), 35W Intel® Core™ i3-6100, Dual Core, 3M Cache, 3.7GHz, 47W Intel® Core™ i3-6100TE, Dual Core, 4M Cache, 2.7GHz, 35W Intel® Pentium® G4400, Dual Core, 3M Cache, 3.3GHz, 47W Intel® Pentium® G4400TE, Dual Core, 3M Cache, 2.4GHz, 35W Intel® Celeron® Processor G3900, Dual Core, 2M Cache, 2.8GHz, 65W Intel® Celeron® Processor G3900TE, Dual Core, 2M Cache, 2.6GHz, 35W
CHIPSET	Intel® Q170 Chipset
MEMORY	Two 260-pin SODIMM up to 32GB Dual Channel DDR4 1866/2133MHz
BIOS	Insyde SPI 128Mbit
STORAGE	Supports 2 x 2 x 2.5" internal drive bays Supports RAID 0/1
OPTICAL	N/A
WATCHDOG TIMER	Programmable via S/W from 1 sec. to 255 sec.
EXPANSION SLOTS	1 x Full height PCIe x16 (Gen 3)
POWER SUPPLY OPTIONS	1U Flex AC or DC
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 (/WES7) 32/64-bit Windows 8.1 (64-bit) Windows 10 IoT Enterprise 64-bit Debian 8 (with VESA graphic driver) & CentOS 7 (with VESA graphic driver) Linux Note: 7th Gen Intel Core processors only support Win 10.
DISPLAY	1 x VGA: resolution up to 1920x1200 @ 60Hz 1 x LVDS: dual channel, resolution up to 1920x1200 @ 60Hz 1 x DVI-I: resolution up to 1920x1200 @ 60Hz 1 x DP++: resolution up to 4096x2304 @ 60Hz
MULTI-DISPLAY OUTPUTS	Supports Triple Display outputs
REAR I/O PORTS	2 x GbE (RJ-45) 1 x RS-232 (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 DP++ 1 x Line-out, 1 x Mic-in, 1 x Line-in (opt., MOQ required)

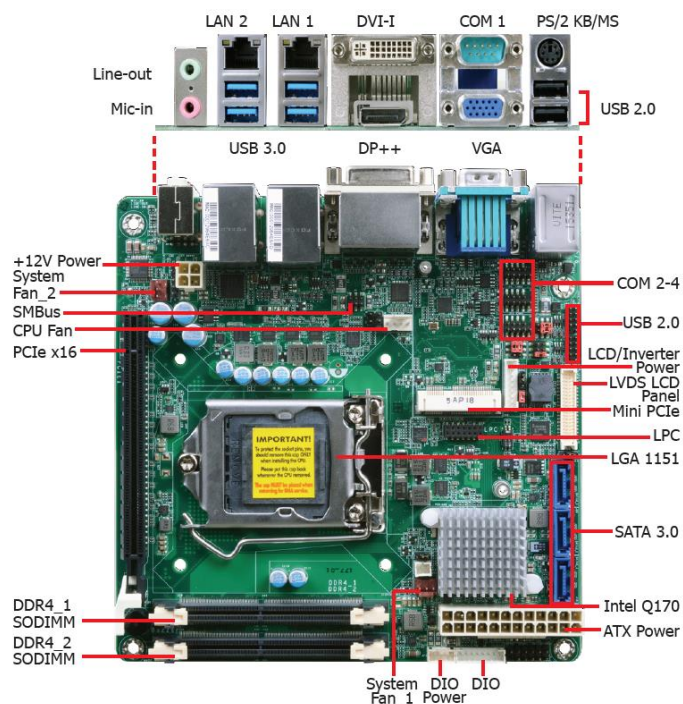
TECHNICAL INFORMATION (CONTINUED)

OPTIONAL PORT EXPANSION FROM MOTHERBOARD	1 x RS-232/422/485 (RS-232 w/power) (2.00mm pitch) 2 x RS-232 (2.00mm pitch) 2 x USB 2.0 (2.00mm pitch)
FRONT CHASSIS CONNECTORS	2 x USB
DRIVE BAYS	2 x 2 x 2.5" SATA drive bays
MOTHERBOARD MTBF	434,530 hrs @ 25°C; 254,049 hrs @ 45°C ; 162,406 hrs @ 60°C Calculation model: Telcordia Issue 2, Method I Case 3 Environment: GB, GC – Ground Benign, Controlled
ENVIRONMENT	Operation Temperature: 0~60 °C Storage Temperature: -20~85 °C Relative Humidity: 5~90%, non-condensing (Dependent on overall system specifications)
VIBRATION	5~7 Hz: 0.5" double amplitude displacement 7~2000 Hz: 1.5g acceleration
COOLING	Processor cooling fan Optional : 2 x 40mm fans
COLOUR	Black (all other optional colours are available upon request)
DIMENSIONS:	482.6 (W) x 282.4 (D) x 44.4 (H); 19" (W) x 11.12" (D) x 1.75" (H)

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