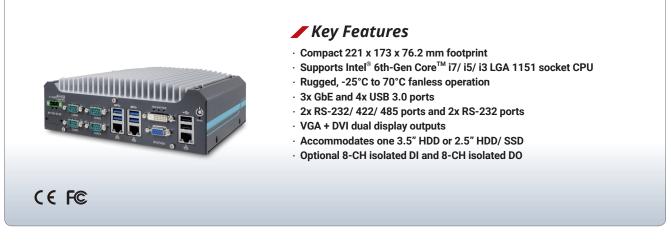
Intel[®] 6th-Gen Core [™] i7/ i5/ i3 Compact Fanless Embedded Controller with 3x GbE



Introduction

iROBO-5501 series features compact fanless embedded controllers for the cost and space conscious. Based on Intel[®] Skylake platform, it is designed to provide cutting-edge performance and reliable operation in extreme environment. Its LGA 1151 socket offers users the flexibility to select a 35W CPU from 6th-Gen Intel[®] CoreTM i to Celeron[®] lineup to suit application needs.

iROBO--5501 is the most compact fanless embedded controller supporting Skylake LGA 1151 socket CPUs, measuring just 221 x 173 x 27 mm it is easy to deploy in restricted spaces. In its compact enclosure, iROBO--5501 features rich, front-accessible I/Os including 3x GbE, 4x USB 3.0 and 4x COM ports. There is even enough room for a 3.5" HDD that is compatible with the latest storage capacities.

The compact iROBO-5501 is a cost-effective solution that does not compromise on performance and reliability, making it the ideal embedded controller for various industrial applications.

Specifications

| System Core | | Expansion Bus/ Internal I/O Interface | |
|-------------------|--|---|---|
| | Supports following CPUs | mini-PCle | 1x full-size mini PCI Express socket |
| _ | Intel® CoreTM i7-6700TE (8M Cache, 2.4/ 3.4 GHz, 35W TDP) Intel® CoreTM i5-6500TE (6M Cache, 2.3/ 3.3 GHz, 35W TDP) | M.2 | 1x M.2 B key socket for 3G/4G options with SIM socket |
| Processor | Intel [®] CoreTM i3-6100TE (4M Cache, 2.7 GHz, 35W TDP) Intel [®] Pentium [®] G4400TE (3M Cache, 2.4 GHz, 35W TDP) | mini-PCle 1x full-size mini PCl Express sock M.2 1x M.2 B key socket for 3G/4G op USB 1x internal USB2.0 port Remote Ctrl. & Status Output 1x 2x6-pin 2.0mm pin-header concontrol and status LED output Power Supply DC DC Input 1x 3-pin pluggable terminal block Mechanical Dimension Weight 2.8 kg (incl. CPU, GPU, memory and Mounting Wall-mount (standard) or DIN-rail Environmental Operating Temperature -25°C ~ 70°C */** Storage Temperature -40°C ~ 85°C | 1x internal USB2.0 port |
| | Intel [®] Celeron [®] G3900TE (2M Cache, 2.3 GHz, 35W TDP) | | 1x 2x6-pin 2.0mm pin-header connector for remote on/off |
| Chipset | Intel [®] H110 platform controller hub | · · · · | control and status LED output |
| Graphics | Integrated Intel [®] HD 530/510 controller | Power Supply | |
| Memory | Up to 16GB DDR4-2133 (single SO-DIMM) | DC Input | 1x 3-pin pluggable terminal block for 8~35 VDC power input |
| I/O Interface | | Mechanical | |
| | 1x Gigabit Ethernet port (via Intel I219-LM) | Dimension 221 mm (W) x 173 mm (D) x 76.2 mm (H) | 221 mm (W) x 173 mm (D) x 76.2 mm (H) |
| Ethernet port | 2x Gigabit Ethernet port (via Intel I210-IT) | Weight | 2.8 kg (incl. CPU, GPU, memory and HDD) |
| USB | 4x USB3.0 ports | Mounting | Wall-mount (standard) or DIN-rail mount (optional) |
| | 2x USB2.0 ports | Environmental | |
| Video port | 1x VGA connector 1x DVI-D connector | | -25°C ~ 70°C */** |
| Serial Port | 2x software-programmable RS-232/ 422/ 485 ports 2x RS-232 ports | Storage | -40°C ~ 85°C |
| Isolated DIO | 8-CH isolated DI and 8-CH isolated DO (optional) | — Humidity | 10%~90% , non-condensing |
| Storage Interface | | Turnulty | |
| SATA HDD | 1x internal SATA port for 3.5" HDD or 2.5" HDD/ SSD | Vibration Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64) | |
| mSATA | 1x full-size mSATA socket | Shock | Operating, 50 Grms, half-sine 11 ms duration (w/ SSD, according t IEC60068-2-27) |

EMC CE/FCC Class A, according to EN55022, EN55024 & EN55032

* The 100% CPU loading is applied using Passmark® BurnInTest 8.1. For detail testing criteria, please contact Neousys Technology

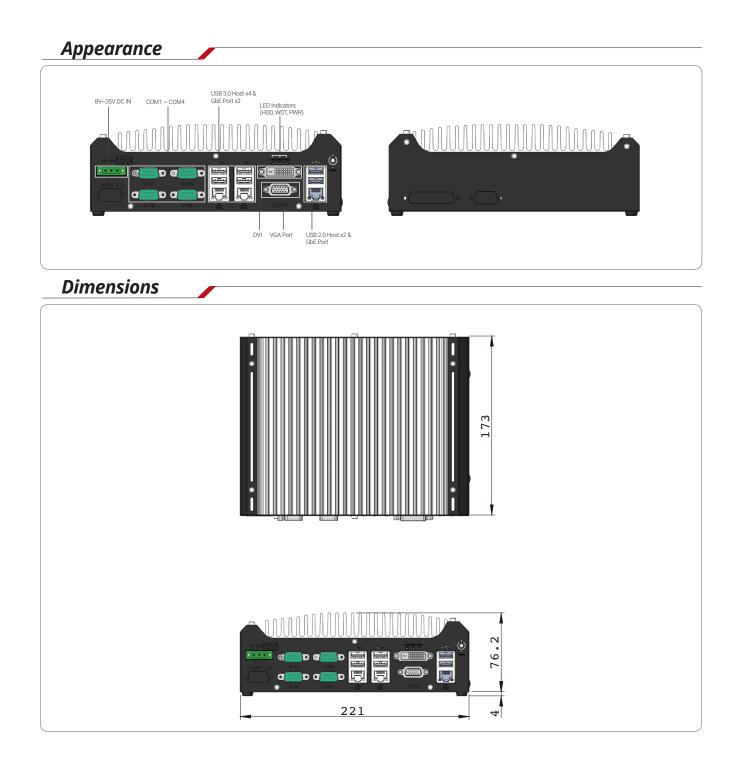
please contact Neousys Technology ** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.

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Headquarter





Ordering Information

| Model No. | Product Description |
|----------------|--|
| iROBO-5501 | Intel [®] 6th-Gen Core™ i7/ i5/ i3 compact fanless embedded controller with 3x GbE |
| iROBO-5501-DIO | Intel [®] 6th-Gen Core™ i7/ i5/ i3 compact fanless embedded controller with isolated DIO & 3x GbE |

Optional Accessories

| DIN-rail mounting kit | |
|--------------------------|--|
| 120W AC/DC power adapter | |

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