

AAEON Turnkey IPC Solutions

Flexible / Expandable / Capable





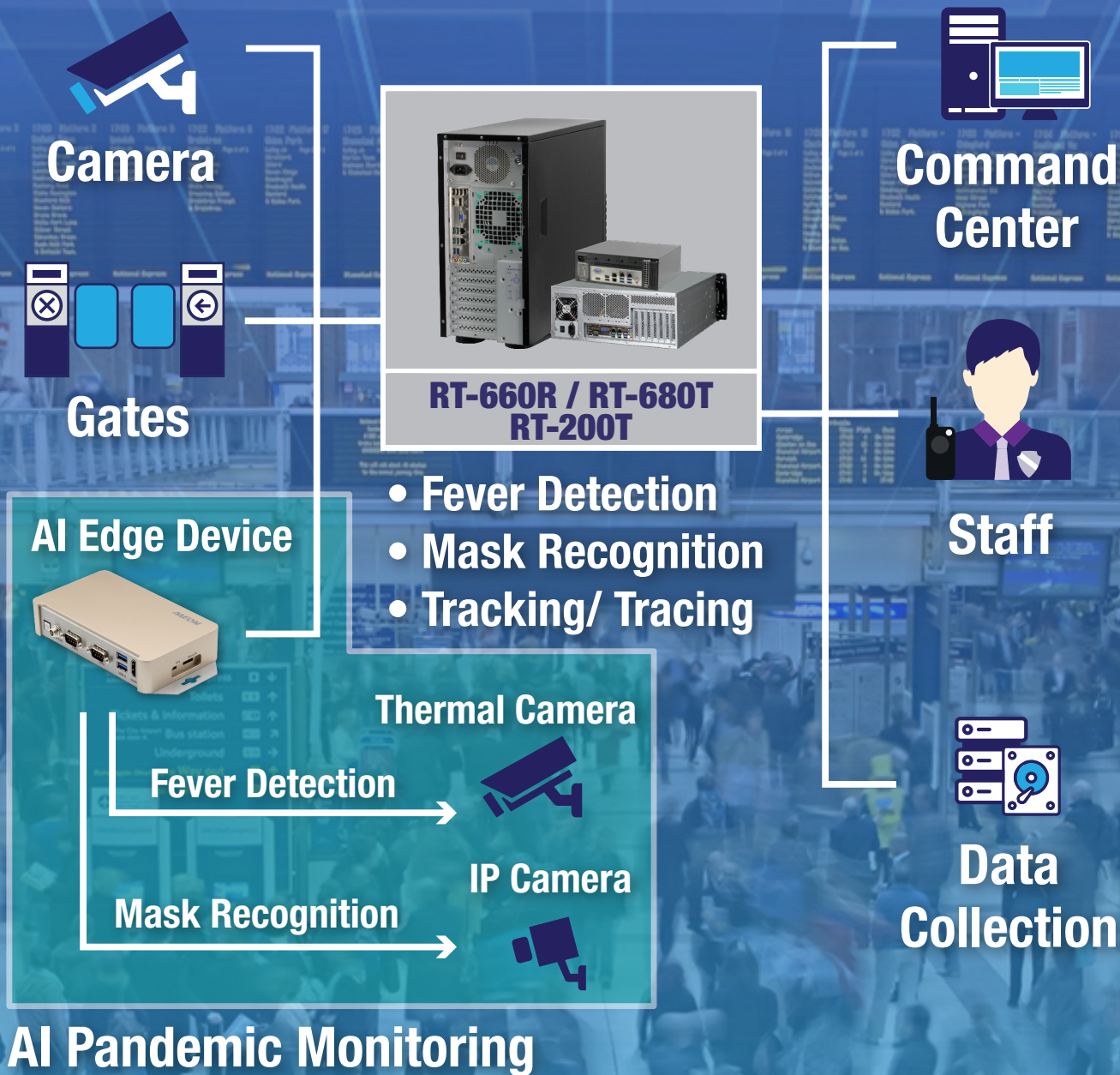
Turnkey IPC Platforms

AAEON is an industry leader in turnkey IPC solutions designed to power industrial workstations, machine vision controllers, and high-performance AI and edge computing systems. AAEON leverages experience and expertise to deliver a diverse line up of solutions, from the compact embedded RT-200T to the powerful rackmount RT-660R and RT-680T desktop workstation. With a range of processors and expandability, AAEON turnkey platforms bring the performance you need to power your application, whether as a command center workstation or as the heart of an industrial AI edge server.



Expandability

Each platform is designed to provide expandability to tailor each system to your application's specific needs. AAEON offers a range of expansion cards including frame grabbers, AI modules, and more; all able to be used with our IPC solutions, saving you time and hassle from searching for compatible components. You can easily turn any system into high-performance AI Edge platforms with the AI Core XM M.2 module or the AI Core XP8 PCIe [x4] card with up to eight Intel® Movidius® Myriad™ X VPUs.



Applications

AAEON turnkey solutions are built to power demanding applications across key vertical markets, offering the capabilities needed to power AI Edge Servers, as well as Control Rooms and Machine builders. The RT-660R offers the ability to fit in easily with server rooms and other rackmount deployments, while the RT-680T easily fits onto any desktop, offering a workstation solution for Control Rooms and Surveillance. The RT-200T is built for embedded deployment and can easily fit in wherever it's needed, from Machine Builders to Smart Factories and Industrial IoT deployments. AAEON turnkey solutions offer broad flexibility to help maximize the effectiveness of your project.



RT-660R and RT-680T

The RT-660R and RT-680T deliver the performance, flexibility and expandability to power applications across key vertical markets, including AI, IoT, Machine Builders, Smart Factories, Surveillance, and Control Rooms for applications like Smart Parking. The systems can utilize expansion cards including AI modules such as the AI Core XP8 with Intel® Movidius® Myriad™ X, as well as powerful GPU cards and frame grabbers to connect with IP cameras, sensors and machine controllers to fully maximize the capabilities of these applications.



RT-200T

The RT-200T industrial PC platform from AAEON brings the performance of Intel® Core™ processors to an embedded platform designed to power demanding applications including IoT, automation, and machine builders. With a broad I/O layout, expandability options and wall-mount kit as standard, the RT-200T delivers the computing performance needed to power your application anywhere it's deployed.

Pick Your Own

AAEON offers the RT-660R, RT-680T, and RT-200T in prebuilt configurations to provide the best value for performance. However, these systems support a wide range of motherboards and configurations, offering flexibility to match the board and chassis you want. Check out the support guide to learn more.

ATX



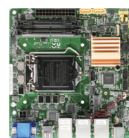
Model	ATX-H310	ATX-C246	ATX-Q370	IMBA-Q170A	IMBA-H110A
	Coffeelake(8th & 9th), LGA1151 H310, DDR4	Coffeelake(8th & 9th), LGA1151 C246, DDR4	Coffeelake(8th & 9th), LGA1151 Q370, DDR4	Skylake(6th)/Kabylake(7th), LGA1151 Q170, DDR4	Skylake(6th)/Kabylake(7th), LGA1151 H110, DDR4
 RT-660R 4U Rackmount Chassis	✓	✓	✓	✓	✓
 RT-680T 4U Tower Chassis	✓	✓	✓	✓	✓

Micro-ATX



Model	MAX-Q470	MAX-H310A	MAX-Q370A	MAX-C246A	IMBM-H110A	IMBM-Q170A
	Cometlake(10th), LGA1200 Q470E, DDR4	Coffeelake(8th/9th) LGA1151 H310, DDR4	Coffeelake(8th/9th) LGA1151 Q370, DDR4	Coffeelake(8th/9th) LGA1151 C246, DDR4	Skylake(6th)/Kabylake(7th), LGA1151 Q170, DDR4	Skylake(6th)/Kabylake(7th), LGA1151 H110, DDR4
 RT-660R 4U Rackmount Chassis	✓	✓	✓	✓	✓	✓
 RT-680T 4U Tower Chassis	✓	✓	✓	✓	✓	✓

Mini-ITX



Model	MIX-Q370A1	MIX-Q370A2	MIX-H310A1	MIX-H310A2	EMB-Q170A	EMB-Q170C
	Coffeelake(8th & 9th), LGA1151 Q370, DDR4 ATX power	Coffeelake(8th & 9th), LGA1151 Q370, DDR4 ATX power	Coffeelake(8th & 9th), LGA1151 H310, DDR4 ATX power	Coffeelake(8th & 9th), LGA1151 H310, DDR4 ATX power	Skylake(6th)/Kabylake(7th), LGA1151 Q170, DDR4 ATX power	Skylake(6th)/Kabylake(7th), LGA1151 Q170, DDR4 ATX power
 RT-660R 4U Rackmount Chassis	✓	✓	✓	✓	✓	✓

Note: All specifications are subject to change without notice.

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Selection Guide



Model	RT-660R-Q170	RT-660R-C246	RT-660R-Q370
System			
CPU	Intel® 7th/ 6th Generation(Kaby Lake-S/ Skylake-S) Core™ i7/i5/i3/Pentium®/ Celeron® 14nm LGA1151 Socket Processor	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5/ i3, Pentium 14nm, Celeron™, Xeon E-2200/2100, LGA 1151 socket Processor	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5/ i3, Pentium 14nm LGA 1151 socket Processor
Chipset	Intel® Q170	Intel® C246 Express Chipset	Intel® Q370 Express Chipset
System Memory	288-pin DIMM x 4, max. 64GB, DDR4 2400/2133/1867, Dual channel	DIMM x 4, DDR4 (2666/2400/2133 MHz, max. 64GB) ECC, un-buffered memory Dual-channel memory architecture	DIMM x 4, DDR4 (2666/2400/2133 MHz, max. 64GB) Non-ECC, un-buffered memory Dual channel memory architecture
I/O Chipset	NCT6791D + F81216HD	NCT6793D + F81216HD	NCT6793D+ F81216HD
Display Interface	HDMI x 2, VGA x 1	HDMI x 1, VGA x 1, DP x 1	HDMI x 1, VGA x 1, DP x 1
Storage	Supports RAID 0/1/5/10 SKU1: SATA 6.0Gb/s x 3, M.2 M key (SATA) x 1 SKU2: SATA 6.0Gb/s x 4, M.2 M key (PCIex4) x 1	SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280 M-key (PCIex4/SATA3) x 1	SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280 M-key (PCIex4/SATA3) x 1
Storage Devices	External 5.25" x 3 ,Internal 3.5" x 4 +2.5" x 1	External 5.25" x 3 ,Internal 3.5" x 4 +2.5" x 1	External 5.25" x 3 ,Internal 3.5" x 4 +2.5" x 1
Audio	Realtek® ALC887 (Colay with ALC886)	Realtek® ALC887 6-Channel High Definition Audio CODEC	Realtek® ALC887 6-Channel High Definition Audio CODEC
Ethernet	Intel® PHY i219LM Gb LAN (supports Intel® AMT 12.0) x 1 Intel® i211AT Gb LAN x 1 RJ45 x 2	Intel® PHY i219LM Gb LAN (supports Intel® AMT 12.0) x 1 Intel® i211AT Gb LAN x 1 RJ45 x 2	Intel® PHY i219LM Gb LAN (supports Intel® AMT 12.0) x 1 Intel® i211AT Gb LAN x 1 RJ45 x 2
TPM	Nuvoton NPCT6xx TPM2.0 (Optional)	Nuvoton NPCT750ABBYX TPM2.0 onboard (optional)	Nuvoton NPCT750ABBYX TPM2.0 onboard (optional)
H/W Monitor	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis
Watchdog Timer	1~255 steps by software program	1~255 steps by software program	1~255 steps by software program
Smart Fan control	CPU Fan connector(s) (4-pin) x 1 Chassis Fan connector(s) (4-pin) x 2	CPU Fan connector(s) (4-pin) x 1 Chassis Fan connector(s) (4-pin) x 2	CPU Fan connector(s) (4-pin) x 1 Chassis Fan connector(s) (4-pin) x 2
Wake On LAN/ PXE	Yes (WOL / PXE)	Yes (WOL / PXE)	Yes (WOL / PXE)
Power State	S3, S4, S5	S3, S4, S5	S3, S4, S5
System Fan	Front: 1 x 120mm (T=25mm), PWM mode. Rear: 2 x 80mm (T=25mm)(Option) PWM mode.	Front: 1 x 120mm (T=25mm), PWM mode. Rear: 2 x 80mm (T=25mm)(Option), PWM mode.	Front: 1 x 120mm (T=25mm), PWM mode. Rear: 2 x 80mm (T=25mm)(Option) PWM mode.
I/O			
Front Panel	Power On/Off, System Reset, 2 x USB2.0	Power On/Off, System Reset, 2 x USB2.0	Power On/Off, System Reset, 2 x USB2.0
Rear Panel I/O	USB 3.0 x 10 HDMI x 1, VGA x 1, DP x 1 Audio Jack x 3: Line-in, Mic-in, Line-out LAN (RJ45) ports x 2 DB-9 COM x 1 (supports RS-232/422/485, 5V/12V/RI) Stack Port (Keyboard & Mouse) x 1	USB 3.1 Gen2 ports (10 Gbps) x 4, USB 3.1 Gen1 ports (5 Gbps) x 2, USB 2.0 ports x 4 HDMI x 1, VGA x 1, DP x 1 Audio Jack x 3: Line-in, Mic-in, Line-out LAN (RJ45) ports x 2	USB 3.1 Gen2 ports (10 Gbps) x 4, USB 3.1 Gen1 ports (5 Gbps) x 2, USB 2.0 ports x 4 HDMI x 1, VGA x 1, DP x 1 Audio Jack x 3: Line-in, Mic-in, Line-out LAN (RJ45) ports x 2
Internal I/O connectors	Storage: Supports RAID 0/1/5/10 SATA 6.0Gb/s x 3, M.2 M key (SATA) x 1 USB: USB 2.0 x 3 Audio I/O: 1 x speaker header (Line-out) Serial Port: 5 x RS-232 headers DIO: 8-bit Digital I/O interface (In/Out programmable) x 1 Others: Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1	Storage: SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10, M.2 2280 M-key (PCIex4/SATA3) x 1 USB: USB 2.0 headers x 1 support additional 2 USB ports (2x5PIN, p=2.54mm) Audio I/O: 1 x speaker header (Line-out) Serial Port: 5 x RS-232 headers, 1 x RS-232/422/485 (COM1, supports 5V/12V/ RI optional) DIO: 8-bit Digital I/O interface (In/Out programmable) x 1 Others: Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1	Storage: SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10, M.2 2280 M-key (PCIex4/SATA3) x 1 USB: USB 2.0 headers x 1 support additional 2 USB ports (2x5PIN, p=2.54mm) Audio I/O: 1 x speaker header (Line-out) Serial Port: 5 x RS-232 headers, 1 x RS-232/422/485 (COM1, supports 5V/12V/ RI optional) DIO: 8-bit Digital I/O interface (In/Out programmable) x 1 Others: Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1
Expansion	PCIe [x16] x 1, PCIe [x4] (open edge) x 2, PCI x 3, M.2 E key (22 x 30mm) x 1, M.2 M key (22 x 80mm, for SATA) x 1	PCIe 3.0[x16] Slot x 1, PCIe 3.0[x4] Slot (open edge) x 2, PCIe 3.0[x1] Slot (open edge) x 2, PCI x 2, M.2 2230 E-key (PCIex1/USB2.0/CNV) x 1, M.2 2280 M-key (PCIex4/SATA3) x 1	PCIe 3.0[x16] Slot x 1, PCIe 3.0[x4] Slot (open edge) x 2, PCIe 3.0[x1] Slot (open edge) x 2, PCI x 2, M.2 2230 E-key (PCIex1/USB2.0/CNV) x 1, M.2 2280 M-key (PCIex4/SATA3) x 1
Power			
Battery	—	—	—
Power Requirement	ATX power supply Input: 90~264V Output: 500W.	ATX power supply Input:90~264V Output:500W.	ATX power supply Input: 90~264V Output: 500W.
Mechanical			
Color	Silver	Silver	Silver
Dimensions (W X H X D)	445 x 430 x 176 (mm), 17.5" x 16.9" x 6.9"	445 x 430 x 176 (mm), 17.5" x 16.9" x 6.9"	445 x 430 x 176 (mm), 17.5" x 16.9" x 6.9"
Gross Weight	TBC	TBC	TBC
Net Weight	TBC	TBC	TBC
Environmental			
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0°C ~ 45°C)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	0~90%, non-condensing	0~90%, non-condensing	0~90%, non-condensing



Model	RT-660R-H310	RT-660R-Q470E	RT-660R-W480E
System			
CPU	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium 14nm LGA 1151 socket Processor, Max. 6 Core 95W	Intel® 10th Gen (Cometlake-S) Core™ Processors, up to 125 W	Intel® 10th Gen (Cometlake-S) Core™ Processors, up to 125 W
Chipset	Intel® H310 Express Chipset	Intel® Q470E Express Chipset	Intel® W480E Express Chipset
System Memory	DIMM x 2, DDR4 (2666/2400/2133 MHz, max. 64GB) non-ECC, un-buffered memory Dual channel memory architecture	MAX up to 128GB Intel® Core i9/i7/i5 CPUs support up to 128GB(32GB per DIMM) Intel® Core i3/Pentium®/Celeron CPUs support up to 64GB (16GB per DIMM) Dual Channel DDR4 2933 / 2666 / 2400 MHz - Intel Core i9 / i7 CPUs support DDR4 up to 2933 MHz - Intel Core i5 / i3 CPUs support DDR4 up to 2666 MHz - Intel Pentium / Celeron CPU support DDR4 up to 2400 MHz	Dual Channel DDR4 2933 / 2666 / 2400 MHz, (ECC memory supported by CPU) - Intel Core i9 / i7 CPUs support DDR4 up to 2933 MHz - Intel Core i5 / i3 CPUs support DDR4 up to 2666 MHz - Intel Pentium / Celeron CPU support DDR4 up to 2400 MHz
I/O Chipset	NCT6793D+ F81216HD	F81966D-I	F81966D-I
Display Interface	HDMI+VGA+DP	HDMI 2.0a x 1, VGA x 1, DP 1.2 x 1, HDMI 2.0a, Max resolution up to 4096 x 2160@60Hz, DisplayPort 1.2, DP++ Max resolution up to 4096 x 2160@60Hz, VGA Max resolution up to 1920 x 1200@60Hz	HDMI 2.0a x 1, VGA x 1, DP 1.2 x 1, HDMI 2.0a, Max resolution up to 4096 x 2160@60Hz, DisplayPort 1.2, DP++ Max resolution up to 4096 x 2160@60Hz, VGA Max resolution up to 1920 x 1200@60Hz
Storage	SATA III (6.0Gb/s) ports x 3, support RAID 0/1/5/10 M.2 2280/2242 M-key (PClex1/SATA3) x 1	SATA III (6.0Gb/s) ports x 6, support RAID 0/1/5/10 M.2 x 1 (Key M, 2242 / 2260 / 2280) with SATA3 and PCIe x4 for SSD * Shared with SATA3_5 / SATA3_6 Ports - When using M.2 PCIe x4 SSD, both SATA3_5 and SATA_6 Ports are disabled - When using M.2 SATA SSD, only SATA3_5 Port is disabled, and SATA3_6 Port is available	SATA III (6.0Gb/s) ports x 6, support RAID 0/1/5/10 M.2 x 1 (Key M, 2242 / 2260 / 2280) with SATA3 and PCIe x4 for SSD * Shared with SATA3_5 / SATA3_6 Ports - When using M.2 PCIe x4 SSD, both SATA3_5 and SATA_6 Ports are disabled - When using M.2 SATA SSD, only SATA3_5 Port is disabled, and SATA3_6 Port is available
Storage Devices	5.25" x 3 x 3.5" x 4 HDD Cage, w/ Anti-Vibration kits	External 5.25" x 3, Internal 3.5" x 4 + 2.5" x 1	External 5.25" x 3, Internal 3.5" x 4 + 2.5" x 1
Audio	Audio Jack x 3: Line-in, Mic-in, Line-out	Realtek ALC887/ALC897 HD, High Definition Audio. Line-In / Line-Out / Mic-In	Realtek ALC887/ALC897 HD, High Definition Audio. Line-In / Line-Out / Mic-In
Ethernet	Intel® PHY i219V Giga LAN x 1 Intel® i211AT Giga LAN x 1 RJ45 x 2	LAN1: Intel® i225LM with 10/100/1000/2500 Mbps LAN2: Intel® i219LM with 10/100/1000 Mbps, support AMT / vPro	LAN1: Intel® i225LM with 10/100/1000/2500 Mbps LAN2: Intel® i219LM with 10/100/1000 Mbps, support AMT / vPro
TPM	—	TPM 2.0 onboard	TPM 2.0 onboard
H/W Monitor	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis
Watchdog Timer	1~255 steps by software program	1~255 steps by software program	1~255 steps by software program
Smart Fan control	CPU Fan x 1 Chassis Fan x 2	CPU Fan x 1, Chassis Fan x 2	CPU Fan x 1, Chassis Fan x 2
Wake On LAN/ PXE	Yes (WOL / PXE)	Yes (WOL / PXE)	Yes (WOL / PXE)
Power State	S3, S4, S5	S3, S4, S5	S3, S4, S5
System Fan	Front: 1 x 120mm (T=25mm), PWM mode. Rear: 2 x 80mm (T=25mm)(Option) PWM mode.	1 x 120mm (T=25mm), PWM mode.	1 x 120mm (T=25mm), PWM mode.
I/O			
Front Panel	Power On/Off, System Reset, 2 x USB2.0	1 x Power On/Off, 1 x System Reset	1 x Power On/Off, 1 x System Reset
Rear Panel I/O	USB 3.2 Gen 1 ports x 2, USB 2.0 ports x 4 HDMI x 1, VGA x 1, DP x 1 Audio Jack x 3: Line-in, Mic-in, Line-out LAN (RJ45) ports x 2 DB-9 COM x 1 (supports RS-232/422/485, 5V/12V/RI) SATA III (6.0Gb/s) ports x 3, support RAID 0/1/5/10 M.2 2280/2242 M-key (PClex1/SATA3) x 1 USB 3.2 Gen 1 headers support additional 2 USB ports (2x5PIN, p=2.54mm) x 1 USB 2.0 Type A (vertical) x 1 RS-232 headers x 5 8-bit Digital I/O interface (In/Out programmable) x 1 CPU Fan connector(s) (4-pin) x 1 Chassis Fan connector(s) (4-pin) x 2 Chassis Intrusion x 1 AT/ATX mode select jumper x 1 Front panel header x 1 Clear CMOS jumper x 1	USB 3.2 Gen2 x 4, USB 2.0 x 2, PS/2 Keyboard/Mouse port, HDMI x 1, VGA x 1, DP x 1, COM x 2 (RS232/422/485), Audio Jack x 3: Line-in, Mic-in, Line-out, LAN (RJ45) ports x 2	USB 3.2 Gen2 x 4, USB 2.0 x 2, PS/2 Keyboard/Mouse port, HDMI x 1, VGA x 1, DP x 1, COM x 2 (RS232/422/485), Audio Jack x 3: Line-in, Mic-in, Line-out, LAN (RJ45) ports x 2
Internal I/O connectors		SATA III (6.0Gb/s) ports x 6, support RAID 0/1/5/10, M.2 x 1 (Key M, 2242 / 2260 / 2280) with SATA3 and PCIe x4 for SSD, USB 3.2 Gen1 x 4 (2 x USB 3.2 Gen1 header), USB 2.0 x 2 (1 x 2.54 pitch header), RS-232 headers x 4, 8 x GPI, 8 x GPO (shared with LPT header), CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 3, Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1	SATA III (6.0Gb/s) ports x 6, support RAID 0/1/5/10, M.2 x 1 (Key M, 2242 / 2260 / 2280) with SATA3 and PCIe x4 for SSD, USB 3.2 Gen1 x 4 (2 x USB 3.2 Gen1 header), USB 2.0 x 2 (1 x 2.54 pitch header), RS-232 headers x 4, 8 x GPI, 8 x GPO (shared with LPT header), CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 3, Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1, 1 x Power On/Off, 1 x System Reset
Expansion	PCIe 3.0[x16] Slot x 1, PCIe 2.0[x4] Slot (open edge) x 2, PCI x 3, M.2 2280/2242 M-key (PClex1/SATA3) x 1	PCIe Gen3 Slots x 3 (PCIe1 / PCIe2 / PCIe3: Single at x16 (PCIe1); Dual at x8 (PCIe1) / x8 (PCIe3); Triple at x8 (PCIe1) / x4 (PCIe2) / x4 (PCIe3)) PCIe x4 (Gen3) x 2 PCI x 2 M.2 x 1 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless M.2 x 1(Key B, 3042 / 3052) with PCIe x1 / USB 3.0 / USB 2.0 and SIM socket for 4G / 5G SIM socket x 1 connected to M.2 Key B	PCIe Gen3 Slots x 3 (PCIe1 / PCIe2 / PCIe3: Single at x16 (PCIe1); Dual at x8 (PCIe1) / x8 (PCIe3); Triple at x8 (PCIe1) / x4 (PCIe2) / x4 (PCIe3)) PCIe x4 (Gen3) x 2 PCI x 2 M.2 x 1 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless M.2 x 1(Key B, 3042 / 3052) with PCIe x1 / USB 3.0 / USB 2.0 and SIM socket for 4G / 5G SIM socket x 1 connected to M.2 Key B
Power			
Battery	—	—	—
Power Requirement	ATX power supply Input: 90~264V Output: 500W.	ATX power supply Input: 90~264V Output: 500W.	ATX power supply Input: 90~264V Output: 500W.
Mechanical			
Color	Silver	Silver	Silver
Dimensions (W X H X D)	445 x 430 x 176 (mm), 17.5" x 16.9" x 6.9"	445 x 430 x 176 (mm), 17.5" x 16.9" x 6.9"	445 x 430 x 176 (mm), 17.5" x 16.9" x 6.9"
Gross Weight	TBC	TBC	TBC
Net Weight	TBC	TBC	TBC
Environmental			
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0°C ~ 45°C)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	0~90%, non-condensing	0~90%, non-condensing	0~90%, non-condensing

Selection Guide



Model	RT-680T-H310	RT-680T-C246	RT-680T-Q370
System			
CPU	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium 14nm LGA 1151 socket Processor, Max. 6 Core 95W	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium 14nm, Celeron™, Xeon E-2200/2100, LGA 1151 socket Processor, max. TDP 8 Core 95W	Intel® 8th/9th Generation (Coffee Lake-S/Coffee Lake-S Refresh) Core™ i9/ i7/ i5 /i3, Pentium 14nm LGA 1151 socket Processor, max. TDP 8 Core 95W
Chipset	Intel® H310 Express Chipset	Intel® C246 Express Chipset	Intel® Q370 Express Chipset
System Memory	DIMM x 2, DDR4 (2666/2400/2133 MHz, max. 64GB) non-ECC, un-buffered memory Dual channel memory architecture	DIMM x 4, DDR4 (2666/2400/2133 MHz, max. 128GB) ECC, un-buffered memory Dual channel memory architecture	DIMM x 4, DDR4 (2666/2400/2133 MHz, max. 64GB) Non-ECC, un-buffered memory Dual channel memory architecture
I/O Chipset	NCT6793D + F81216HD	NCT6793D + F81216HD	NCT6793D + F81216HD
Display Interface	HDMI + VGA + DP	HDMI + VGA + DP	HDMI + VGA + DP
Storage	SATA III (6.0Gb/s) ports x 3, support RAID 0/1/5/10 M.2 2280/2242 M-key (PCIex1/SATA3) x 1	SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280 M-key (PCIex4/SATA3) x 1	SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280 M-key (PCIex4/SATA3) x 1
Storage Devices	External 5.25" x 3, Internal 3.5" x 4	External 5.25" x 3, Internal 3.5" x 4	External 5.25" x 3, Internal 3.5" x 4
Audio	Realtek® ALC887 6-Channel High Definition Audio CODEC	Realtek® ALC887 6-Channel High Definition Audio CODEC	Realtek® ALC887 6-Channel High Definition Audio CODEC
Ethernet	Intel® PHY i219V Giga LAN x 1, Intel® i211AT Giga LAN x 1, RJ45 type	Intel® PHY i219LM Giga LAN x 1 (supports Intel® AMT 12.0), Intel® i211AT Giga LAN x 1, RJ45 x 2	Intel® PHY i219LM Giga LAN x 1 (supports Intel® AMT 12.0), Intel® i211AT Giga LAN x 1, RJ45 x 2
TPM	N/A	N/A	N/A
H/W Monitor	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis
Watchdog Timer	1~255 steps by software program	1~255 steps by software program	1~255 steps by software program
Smart Fan control	CPU Fan x 1, Chassis Fan x 2	CPU Fan x 1, Chassis Fan x 2	CPU Fan x 1, Chassis Fan x 2
Wake On LAN/ PXE	Yes (WOL / PXE)	Yes (WOL / PXE)	Yes (WOL / PXE)
Power State	S3, S4, S5	S3, S4, S5	S3, S4, S5
System Fan	Front: 1 x 80 mm (built-in HDD cage), PWM Rear: 1 x 120 mm, PWM	Front: 1 x 80 mm (built-in HDD cage), PWM Rear: 1 x 120 mm, PWM	Front: 1 x 80 mm (built-in HDD cage), PWM Rear: 1 x 120 mm, PWM
I/O			
Front Panel	1 x Power On/Off, 1 x System Reset	1 x Power On/Off, 1 x System Reset	1 x Power On/Off, 1 x System Reset
Rear Panel I/O	USB 3.2 Gen 1 ports x 2 USB 2.0 ports x 4 HDMI x 1, VGA x 1, DP x 1 Audio Jack x 3: Line-in, Mic-in, Line-out LAN (RJ45) ports x 2 DB-9 COM x 1 (supports RS-232/422/485, 5V/12V/RI)	USB 3.2 Gen 2 ports (10 Gbps) x 4 USB 3.2 Gen 1 ports (5 Gbps) x 2 USB 2.0 ports x 4 HDMI x 1, VGA x 1, DP x 1 Audio Jack x 3: Line-in, Mic-in, Line-out LAN (RJ45) ports x 2	USB 3.2 Gen 2 ports (10 Gbps) x 4, USB 3.2 Gen 1 ports (5 Gbps) x 2, USB 2.0 ports x 4 HDMI x 1, VGA x 1, DP x 1 Audio Jack x 3: Line-in, Mic-in, Line-out LAN (RJ45) ports x 2
	SATA III (6.0Gb/s) ports x 3, support RAID 0/1/5/10 M.2 2280/2242 M-key (PCIex1/SATA3) x 1 USB 3.2 Gen 1 headers support additional 2 USB ports (2x5PIN, p=2.54mm) x 1 USB 2.0 Type A (vertical) x 1 RS-232 headers x 5 8-bit Digital I/O interface (In/Out programmable) x 1 CPU Fan connector(s) (4-pin) x 1 Chassis Fan connector(s) (4-pin) x 2 Chassis Intrusion x 1 AT/ATX mode select jumper x 1 Front panel header x 1 Clear CMOS jumper x 1	SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280 M-key (PCIex4/SATA3) x 1 USB 2.0 headers x 1 support additional 2 USB ports (2x5PIN, p=2.54mm) 5 x RS-232 headers 1 x RS-232/422/485 (COM1, supports 5V/12V/RI optional) 8-bit Digital I/O interface (In/Out programmable) x 1 CPU Fan connector(s) (4-pin) x 1 Chassis Fan connector(s) (4-pin) x 2 Chassis Intrusion x 1 AT/ATX mode select jumper x 1 Front panel header x 1 Clear CMOS jumper x 1	SATA III (6.0Gb/s) ports x 4, support RAID 0/1/5/10 M.2 2280 M-key (PCIex4/SATA3) x 1 USB 2.0 headers x 1 support additional 2 USB ports (2x5PIN, p=2.54mm) 5 x RS-232 headers 1 x RS-232/422/485 (COM1, supports 5V/12V/RI optional) 8-bit Digital I/O interface (In/Out programmable) x 1 CPU Fan connector(s) (4-pin) x 1 Chassis Fan connector(s) (4-pin) x 2 Chassis Intrusion x 1 AT/ATX mode select jumper x 1 Front panel header x 1 Clear CMOS jumper x 1
Expansion	PCIe 3.0[x16] Slot x 1, PCIe 2.0[x4] Slot (open edge) x 2, PCI x 3, M.2 2280/2242 M-key (PCIe x 1/SATA3) x 1	PCIe 3.0[x16] Slot x 1, PCIe 3.0[x4] Slot (open edge) x 2, PCIe 3.0[x1] Slot (open edge) x 2, PCI x 2, M.2 2230 E-key (PCIex1/USB2.0/CNVi) x 1, M.2 2280 M-key (PCIex4/SATA3) x 1	PCIe 3.0[x16] Slot x 1, PCIe 3.0[x4] Slot (open edge) x 2, PCIe 3.0[x1] Slot (open edge) x 2, PCI x 2, M.2 2230 E-key (PCIex1/USB2.0/CNVi) x 1, M.2 2280 M-key (PCIex4/SATA3) x 1
Power			
Battery	—	—	—
Power Requirement	ATX power supply Input:90~264V Output:500W.	ATX power supply Input:90~264V Output:500W.	ATX power supply Input:90~264V Output:500W.
Mechanical			
Color	Black	Black	Black
Dimensions (W X H X D)	198 x 465 x 425 (mm), 7.8" x 18.31" x 16.73"(w/o bezel)	198 x 465 x 425 (mm), 7.8" x 18.31" x 16.73"(w/o bezel)	198 x 465 x 425 (mm), 7.8" x 18.31" x 16.73"(w/o bezel)
Gross Weight	TBC	TBC	TBC
Net Weight	TBC	TBC	TBC
Environmental			
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0°C ~ 45°C)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	0%~90%RH, non-condensing	0%~90%RH, non-condensing	0%~90%RH, non-condensing

Selection Guide



Model	RT-680T-Q470E	RT-680T-W480E	RT-500T-Q170
System			
CPU	Intel® 10th Gen (Cometlake-S) Core™ Processors, up to 125 W	Intel® 10th Gen (Cometlake-S) Core™ Processors, up to 125 W	6th/7th Generation Intel® Core™ i7/ i5 /i3, LGA 1151 socket Processor, Max. 65W TDP
Chipset	Intel® Q470E Express Chipset	Intel® W480E Express Chipset	Intel® Q170 Express Chipset
System Memory	MAX up to 128GB Intel® Core i9/i7/i5 CPUs support up to 128GB(32GB per DIMM) Intel® Core i3/Pentium®/Celeron CPUs support up to 64GB (16GB per DIMM) Dual Channel DDR4 2933 / 2666 / 2400 MHz - Intel Core i9 / i7 CPUs support DDR4 up to 2933 MHz - Intel Core i5 / i3 CPUs support DDR4 up to 2666 MHz - Intel Pentium / Celeron CPU support DDR4 up to 2400 MHz	Dual Channel DDR4 2933 / 2666 / 2400 MHz, (ECC memory supported by CPU) - Intel Core i9 / i7 CPUs support DDR4 up to 2933 MHz - Intel Core i5 / i3 CPUs support DDR4 up to 2666 MHz - Intel Pentium / Celeron CPU support DDR4 up to 2400 MHz	DDR4 2133/1867 MHz SODIMM x 2, Up to 32GB, Non-ECC, Un-buffered Memory, Dual channel memory architecture
I/O Chipset	F81966D-I	F81966D-I	NCT6791D
Display Interface	HDMI 2.0a x 1, VGA x 1, DP 1.2x 1 HDMI 2.0a, Max resolution up to 4096 x 2160@60Hz DisplayPort 1.2, DP++ Max resolution up to 4096 x 2160@60Hz VGA Max resolution up to 1920 x 1200@60Hz	HDMI 2.0a x 1, VGA x 1, DP 1.2x 1 HDMI 2.0a, Max resolution up to 4096 x 2160@60Hz DisplayPort 1.2, DP++ Max resolution up to 4096 x 2160@60Hz VGA Max resolution up to 1920 x 1200@60Hz	VGA + HDMI + HDMI
Storage	SATA III (6.0Gb/s) ports x 6, support RAID 0/1/5/10 M.2 x 1 (Key M, 2242 / 2260 / 2280) with SATA3 and PCIe x4 for SSD * Shared with SATA3_5 / SATA3_6 Ports - When using M.2 PCIe x4 SSD, both SATA3_5 and SATA_6 Ports are disabled - When using M.2 SATA SSD, only SATA3_5 Port is disabled, and SATA3_6 Port is available	SATA III (6.0Gb/s) ports x 6, support RAID 0/1/5/10 M.2 x 1 (Key M, 2242 / 2260 / 2280) with SATA3 and PCIe x4 for SSD * Shared with SATA3_5 / SATA3_6 Ports - When using M.2 PCIe x4 SSD, both SATA3_5 and SATA_6 Ports are disabled - When using M.2 SATA SSD, only SATA3_5 Port is disabled, and SATA3_6 Port is available	SATA3 (6.0Gb/s) x 6, Support RAID 0/1/5/10
Storage Devices	External 5.25" x 3, Internal 3.5" x 4	External 5.25" x 3, Internal 3.5" x 4	Four 3.5" swappable HDD bays + Two 2.5" HDD bay(internal)
Audio	Realtek® ALC887/ALC897 HD, High Definition Audio. Line-In / Line-Out / Mic-In	Realtek® ALC887/ALC897 HD, High Definition Audio. Line-In / Line-Out / Mic-In	Realtek® ALC887 with Amp.
Ethernet	LAN1: Intel® I225LM with 10/100/1000/2500 Mbps LAN2: Intel® I219LM with 10/100/1000 Mbps, support AMT / vPro	LAN1: Intel® I225LM with 10/100/1000/2500 Mbps LAN2: Intel® I219LM with 10/100/1000 Mbps, support AMT / vPro	Intel® 219LM for vPro x 1, Intel® i211AT x 1
TPM	TPM 2.0 onboard	TPM 2.0 onboard	—
H/W Monitor	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/12V, Fan Monitor on CPU/Chassis
Watchdog Timer	1~255 steps by software program	1~255 steps by software program	1~255 steps by software program
Smart Fan control	CPU Fan x 1, Chassis Fan x 2	CPU Fan x 1, Chassis Fan x 3	CPU Fan/Chassis Fan
Wake On LAN/ PXE	Yes (WOL / PXE)	Yes (WOL / PXE)	Yes (WOL / PXE)
Power State	S3, S4, S5	S3, S4, S5	S3, S4, S5
System Fan	Front: 1 x 80 mm (built-in HDD cage), PWM Rear: 1 x 120 mm, PWM	Front: 1 x 80 mm (built-in HDD cage), PWM Rear: 1 x 120 mm, PWM	120mm PWM fan x 1
I/O			
Front Panel	1 x Power On/Off, 1 x System Reset	1 x Power On/Off, 1 x System Reset	Power button x 1, Reset button x 1, Power LED x 1, HDD activity LED x 1
Rear Panel I/O	USB 3.2 Gen2 x 4, USB 2.0 x 2, PS/2 Keyboard/Mouse port, HDMI x 1, VGA x 1, DP x 1, COM x 2 (RS232/422/485), Audio Jack x 3: Line-in, Mic-in, Line-out, LAN (RJ45) ports x 2	USB 3.2 Gen2 x 4, USB 2.0 x 2, PS/2 Keyboard/Mouse port, HDMI x 1, VGA x 1, DP x 1, COM x 2 (RS232/422/485), Audio Jack x 3: Line-in, Mic-in, Line-out, LAN (RJ45) ports x 2	USB 3.0 x 6 VGA x 1, HDMI x 2 Mic-in x 1, Line out x 1 LAN (RJ45) port x 2
Internal I/O connectors	SATA III (6.0Gb/s) ports x 6, support RAID 0/1/5/10 M.2 x 1 (Key M, 2242 / 2260 / 2280) with SATA3 and PCIe x4 for SSD USB 3.2 Gen1 x 4 (2 x USB 3.2 Gen1 header), USB 2.0 x 2 (1 x 2.54 pitch header) RS-232 headers x 4, 8 x GPI, 8 x GPO (shared with LPT header), CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 3, Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1	SATA III (6.0Gb/s) ports x 6, support RAID 0/1/5/10 M.2 x 1 (Key M, 2242 / 2260 / 2280) with SATA3 and PCIe x4 for SSD USB 3.2 Gen1 x 4 (2 x USB 3.2 Gen1 header), USB 2.0 x 2 (1 x 2.54 pitch header) RS-232 headers x 4, 8 x GPI, 8 x GPO (shared with LPT header), CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 3, Chassis Intrusion x 1, AT/ATX mode select jumper x 1, Front panel header x 1, Clear CMOS jumper x 1	SATA3 (6.0Gb/s) x 6 SATA power connector x 1 Speaker out x 1 4-pin CPU Fan connector x 1 4-pin Chassis Fan connector x 1 M.2 E-key(22x30mm) for PCIe x 1 PCIe3.0 [x8] x 1, support Low-profile bracket Front Panel connector x 1 Chassis Intrusion x 1 Buzzer onboard x 1 CMOS jumper x 1
Expansion	PCIe Gen3 Slots x 3 (PCIe1 / PCIe2 / PCIe3: Single at x16 (PCIe1); Dual at x8 (PCIe1) / x8 (PCIe3); Triple at x8 (PCIe1) / x4 (PCIe2) / x4 (PCIe3)), PCIe x4 (Gen3) x 2, PCI x 2, M.2 x 1 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless, M.2 x 1 (Key B, 3042 / 3052) with PCIe x1 / USB 3.0 / USB 2.0 and SIM socket for 4G / 5G, SIM socket x 1 connected to M.2 Key B	PCIe Gen3 Slots x 3 (PCIe1 / PCIe2 / PCIe3: Single at x16 (PCIe1); Dual at x8 (PCIe1) / x8 (PCIe3); Triple at x8 (PCIe1) / x4 (PCIe2) / x4 (PCIe3)), PCIe x4 (Gen3) x 2, PCI x 2, M.2 x 1 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless, M.2 x 1 (Key B, 3042 / 3052) with PCIe x1 / USB 3.0 / USB 2.0 and SIM socket for 4G / 5G, SIM socket x 1 connected to M.2 Key B	PCIe3.0 [x8] x 1, support Low-profile bracket M.2 E-key (22x30mm) for PCIe x 1
Power			
Battery	—	—	—
Power Requirement	ATX power supply Input:90~264V Output:500W.	ATX power supply Input:90~264V Output:500W.	Flex ATX power supply Input:90~264V Output:250W.
Mechanical			
Color	Black	Black	Black
Dimensions (W X H X D)	198 x 465 x 425 (mm), 7.8" x 18.31" x 16.73"(w/o bezel)	198 x 465 x 425 (mm), 7.8" x 18.31" x 16.73"(w/o bezel)	210mm x 240mm x 240mm (8.27" x 9.45" x 9.45")
Gross Weight	TBC	TBC	TBC
Net Weight	TBC	TBC	TBC
Environmental			
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C)	32°F ~ 113°F (0°C ~ 45°C)	50°F ~ 95°F (10°C ~ 35°C)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)	-40°F ~ 140°F (-40°C ~ 60°C)
Storage Humidity	0%~90%RH, non-condensing	0%~90%RH, non-condensing	5%~95%, non-condensing

Selection Guide



Model	RT-TKS-CML-A10	RT-TKS-CML-A20	RT-200T-H310
System			
CPU	Intel® 10th Gen (Cometlake-S) Core™ Processors, up to 65W	Intel® 10th Gen (Cometlake-S) Core™ Processors, up to 65W	8th/9th Gen. Intel® Core™ LGA 1151 socket Processor (formerly Coffee Lake-S), Max. 65W TDPs
Chipset	Intel® H410	Intel® H410	Intel® H310 Express Chipset
System Memory	DDR4 SODIMM x 2, Up to 64GB	DDR4 SODIMM x2, Up to 64GB	DDR4 2666/2400/2133 MHz SODIMM x 2, Up to 32GB, Non-ECC, Un-buffered Memory, Dual channel memory architecture
I/O Chipset	Fintek f81966D-1	Fintek f81966D-1	NCT6793D
Display Interface	HDMI 1.4 x 1, DP 1.4 x 1, VGA x 1	HDMI x1, DP x1, VGA x1	HDMI x 1 VGA x 1
Storage	SATA 3.0 (6.0Gb/s) x 1 M.2 M-Key 2242/2260/2280 with PCIe x4 x 1	—	SATA3.0 (6.0Gb/s) x 2 M.2 M-key (22 x 80mm) at bottom side x 1 (SATA only)
Storage Devices	2.5" Drive Bay x 1 M.2 M-Key NVME x 1	SATA 3.0 x1 M.2 M-Key x1	Internal 3.5" x 1 or 2.5" x 2 storage drive
Audio	Realtek ALC897 HD , High Definition Audio. Line-out, Mic-in.	Realtek ALC897 HD , High Definition Audio. Line-out, Mic-in.	Realtek® ALC887 with Amp. Mic-in x 1, Line-out x 1
Ethernet	LAN1: Intel® I219V with 10/100/1000 Mbps LAN2: Intel® I210 with 10/100/1000 Mbps	LAN1: Intel® I219V with 10/100/1000 Mbps LAN2: Intel® I210 with 10/100/1000 Mbps	Sku1: Intel® PCIe Gb LAN 219V x 1 Intel® PCIe Gb LAN i211AT x 3 Sku2: Intel® PCIe Gb LAN 219V x 1 Intel® PCIe Gb LAN i211AT x 1
TPM	—	—	NA
H/W Monitor	Support temperature and voltage monitor	Support temperature and voltage monitor	Temperature Monitor on CPU/Chassis, Voltage Monitor on Vcore/5V/3.3V/12V, Fan Monitor on CPU/Chassis
Watchdog Timer	256 Segments, 0, 1, 2, ...255sec	256 Segments, 0, 1, 2, ...255sec	1~255 steps by software program
Smart Fan control	Not support smart fan	Not support smart fan	CPU Fan x1 Chassis Fan x 1
Wake On LAN/ PXE	Yes	Yes	Yes (WOL / PXE)
Power State	S3, S4, S5	S3, S4, S5	S3, S4, S5
System Fan	40 x 20 mm system fan x 2	40 x 20 mm system fan x 2	80mm PWM fan x 1
I/O			
Front Panel	USB 2.0 x 4, USB 3.2 Gen 1 x 2, RJ-45 x 2 for GbE LAN, DB-9 x 2 for RS-232/422/485, DB-9 x 1 for RS-232, DP x 1, HDMI x 1, VGA x 1, Mic-in x1, Line-out x 1, DC in 12V	USB 2.0 x 2, USB 3.2 Gen 1 x 2, RJ-45 x 2 for GbE LAN, DB-9 x 2 for RS-232/422/485, DB-9 x 1 for RS-232, DP x 1, HDMI x 1, VGA x 1, Mic-in x1, Line-out x 1,	Power button x 1 Reset button x 1
Rear Panel I/O	DB-9 x 2 for RS-232, DIO 8 bit x 1, Power ON/OFF switch x 1, Power LED x 1, HDD Active LED x 1	Power Button x 1	USB 2.0 (2 x 5-pin, 2.00mm) x 1 ports support additional 2 USB. 8 bit GPIO CPU Fan connector(s) (4-pin) x 1, Chassis Fan connector(s) (4-pin) x 1
Internal I/O connectors	USB 3.2 Gen 1 x 2, SATA 3.0 (6.0Gb/s) x 3	USB 3.2 Gen 1 x 2, SATA 3.0 (6.0Gb/s) x 3	USB 3.2 Gen 1 x 2, SATA 3.0 (6.0Gb/s) x 3
Expansion	—	Low-Profile PCIe Slot x 1	PCIe3.0 [x16] x 1 M.2 E-key(22x30mm)
Power			
Battery	—	—	—
Power Requirement	DC IN 12V 120W Power Adapter	ATX Power 4pin+24 Pin	ATX power supply Input:90~264V Output:250W
Mechanical			
Color	Silver	Silver	Black
Dimensions (W X H X D)	214mm x 58mm x 204mm	255 x 88 x 215 mm	255 x 88 x 230 (mm), 9.65" x 3.46" x 9.06"
Gross Weight	7.1 lb (3.2 kg)	9.26 lbs (4.2 Kg)	TBC
Net Weight	4.9 lb (2.2 kg)	7.05 lbs (3.2 Kg)	TBC
Environmental			
Operating Temperature	32°F ~ 113°F (0°C ~ 45°C) with 0.5 m/s airflow	32°F ~ 113°F (0°C ~ 45°C) with 0.5 m/s airflow	32°F ~ 113°F (0°C ~ 45°C)
Storage Temperature	-49°F ~ 176°F (-45°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)	-49°F ~ 176°F (-45°C ~ 80°C)
Storage Humidity	0~90%, non-condensing	0~90%, non-condensing	0%~90%RH, non-condensing

Selection Guide



Model	RT-680T	RT-200T
System		
M/B Form Factor	ATX (12" x 9.6")	Mini-ITX
Dimension (D x W x H)	465.0 x 198.0 x 425.0 (mm) 18.31" x 7.80" x 16.73" (w/o bezel)	230mm x 255mm x 88mm (8.46" x 10.04" x 3.5")
Drive Bay	3x External 5.25" 4x Internal 3.5"	1x 3.5" or 2 x 2.5" HDD bay
PSU Form Factor	PS/2 Single power supply	Flex-ATX power supply
Indicators	1 x Power Status 2 x LAN Activity 1 x HDD Status 1 x System Alarm	1 x Power HDD LED
Front Control	1 x Power On/Off 1 x System Reset 1 x Alarm Mute 2 x USB3.0	1 x Power button, 1 x Reset button
Cooling Fans	HDD Cage: 80 x 25 PCI: 80 x 25 Rear: 120 x 25	1 x 80mm PWM fan
System Security	Intrusion Switch Key Lock Kensington Slot	N/A
Slot Opening	7 x Full Height (5 x Full Length + 2 x Half Length)	1 x Low-profile bracket
Metal Thickness	0.8mm	0.6mm (Top cover/ Bottom base) 1.0mm (Rear window) 0.8mm (Outside frame/ HDD bracket/ Fan bracket/ Interface bracket)
Materials	SECC	SGCC
HDD Backplane	N/A	N/A
Net Weight	7.8 kg	1.25Kg
Gross Weight	9.8 kg	3.25Kg
Cubic Feet	2.94	0.78
Color	Black	Black/Silver



Model	RT-660R
System	
M/B Form Factor	ATX (12" x 9.6") / Micro ATX (9.6" x 9.6")
Dimension (D x W x H)	445 x 430 x 176 (mm), 17.5" x 16.9" x 6.9"
Drive Bay	Exposed: 3 x 5.25", 1 x 3.5", 1 x Slim ODD, Internal: 4 x 3.5"
PSU Form Factor	PS/2 Single or Mini-redundant
Indicators	1 x Power Status, 1 x HDD Activity, 2 x LAN Activity
Front Control	Power On/Off, System Reset, 2 x USB 2.0
Cooling Fans	Front: 1 x 120mm (T=25mm), PWM, Rear: 2 x 80mm (T=25mm)(Option)
System Security	Intrusion Switch, Key lock on front door
Slot Opening	7
Metal Thickness	1.2mm
Materials	SGCC
HDD Backplane	N/A
Net Weight	9.5 kg
Gross Weight	12.3 kg
Cubic Feet	3.44
Color	Silver



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