

### Features:

- Supports Intel® 6th to 9th Gen Core / Pentium / Celeron Desktop CPU, TDP 35W, LGA1151
- Equipped with Intel® Q170 chipset
- 2 Intel Gigabit Ethernet interfaces
- 2 DDR4 SO-DIMM slots, supporting up to 64GB
- 4 DB9 serial ports (COM1/2 support RS232/RS422/RS485)
- 4 display outputs: VGA, DVI-D, DP, and internal LVDS/eDP, supporting up to 4K@60Hz resolution
- Supports 4G/5G/WIFI/BT wireless functionality expansion
- Supports MXM and aDoor module expansion
- Optional PCIe/PCI standard expansion slots support
- 9~36V DC power supply (optional 12V)
- Fanless passive cooling



Remote Management



Status Monitoring



Remote Operations  
and Maintenance



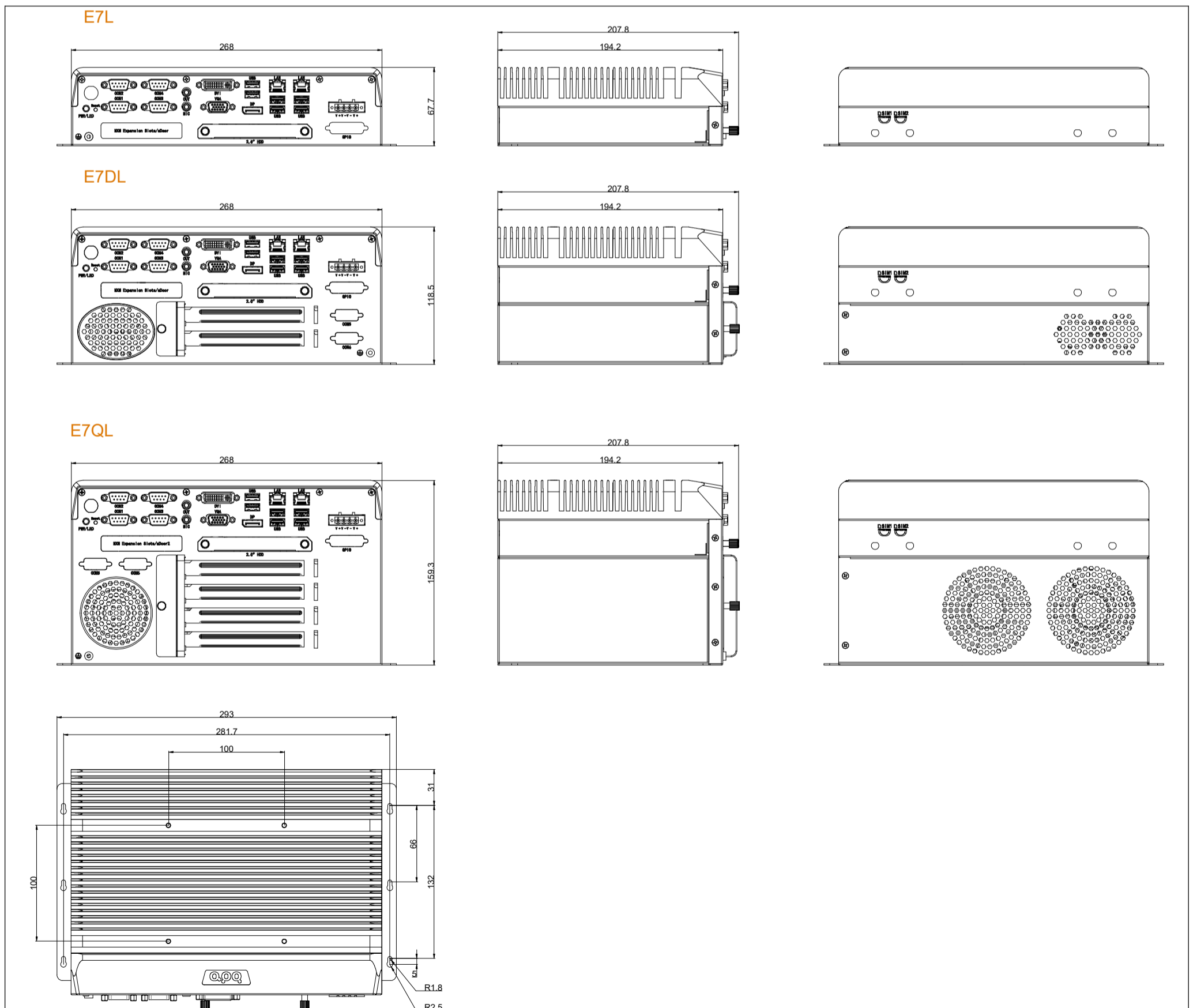
Security Control

## Product Specifications

Model		E7L	E7DL	E7QL
CPU	CPU	Intel® 6/7/8/9th Generation Core / Pentium/ Celeron Desktop CPU		
	TDP	35W		
	Socket	LGA1151		
Chipset	Chipset	Q170		
BIOS	BIOS	AMI UEFI BIOS (Support Watchdog Timer)		
Memory	Socket	2 * Non-ECC SO-DIMM Slot, Dual Channel DDR4 up to 2133MHz		
	Max Capacity	64GB, Single Max. 32GB		
Graphics	Controller	Intel® HD Graphics		
Ethernet	Controller	1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i219-LM/V GbE LAN Chip (10/100/1000 Mbps)		
	Storage	1 * SATA3.0, Quick release 2.5" hard disk bays (T≤7mm) 1 * SATA3.0, Internal 2.5" hard disk bays (T≤9mm, Optional) Support RAID 0, 1		
Expansion Slots	M.2	1 * M.2 Key-M (PCIe x4 Gen 3 + SATA3.0, NVMe/SATA SSD Auto Detect, 2280)		
	PCIe/PCI	N/A	①: 1 * PCIe x16 (x16) + 1 * PCIe x4 (x4) ②: 1 * PCIe x16 + 1 * PCI ③: 2 * PCI PS: ①、②、③ One out of three, Expansion card length ≤ 185mm, TDP ≤ 130W	①: 2 * PCIe x16 (x8/x8) + 2 * PCI ②: 1 * PCIe x16 (x16) + 1 * PCIe x4 (x4) PS: ①、② One out of two, Expansion card length ≤ 185mm, TDP ≤ 130W
	MXM/aDoor	1 * APQ MXM (Optional MXM 4 * LAN/4 * POE/6 * COM/16 * GPIO expansion card)		
	Mini PCIe	1 * Mini PCIe (PCIe x1 Gen 2 + USB 2.0, with 1 * SIM Card)		
	M.2	1 * M.2 Key-B (PCIe x1 Gen 2 + USB3.0, with 1 * SIM Card, 3052)		
Front I/O	Ethernet	2 * RJ45		
	USB	6 * USB3.0 (Type-A, 5Gbps)		
	Display	1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * VGA (DB15/F): max resolution up to 1920*1200 @ 60Hz 1 * DP: max resolution up to 4096*2160 @ 60Hz		
	Audio	2 * 3.5mm Jack (Line-Out + MIC)		
	Serial	2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch) 2 * RS232 (COM3/4, DB9/M)		
	Button	1 * Power Button + Power LED 1 * System Reset Button (Hold down 0.2 to 1s to restart, and hold down 3s to clear CMOS)		
Rear I/O	Antenna	4 * Antenna hole		
	SIM	2 * Nano SIM card slots		
Internal I/O	USB	2 * USB2.0 (wafer)		
	LCD	1 * LVDS (wafer): max resolution up to 1920*1200 @ 60Hz		
	TFront Panel	1 * TF_Panel (3 * USB 2.0 + FPANEL, wafer)		
	Front Panel	1 * FPanel (PWR + RST + LED, wafer)		
	Speaker	1 * Speaker (2-W (per channel)/8-Ω Loads, wafer)		
	Serial	2 * RS232 (COM5/6, wafer)		
	GPIO	1 * 16 bits DIO (8xDI and 8xDO, wafer)		
	LPC	1 * LPC (wafer)		
SATA	2 * SATA 7P Connector			

	SATA Power	2 * SATA Power (wafer)		
	FAN	1 * CPU FAN (wafer) 2 * SYS FAN (wafer)		
Power Supply	Type	DC, AT/ATX		
	Power Input Voltage	9 ~ 36VDC, P≤240W		
	Connector	1 * 4Pin Connector, P=5.00/5.08		
	RTC Battery	CR2032 Coin Cell		
OS Support	Windows	6/7th Core™: Windows 7/10/11 8/9th Core™: Windows 10/11		
	Linux	Linux		
Watchdog	Output	System Reset		
	Interval	Programmable via Software from 1 to 255 sec		
Mechanical	Enclosure Material	Radiator: Aluminum alloy, Box: SGCC		
	Dimensions	268mm(L) * 194.2mm(W) * 67.7mm(H)	268mm(L) * 194.2mm(W) * 118.5mm(H)	268mm(L) * 194.2mm(W) * 159.5mm(H)
	Weight	Net: 4.5 kg Total: 6 kg (Include packaging)	Net: 4.7kg Total: 6.2 kg (Include packaging)	Net: 4.8 kg Total: 6.3 kg (Include packaging)
	Mounting	VESA, Wall mounted, Desktop		
Environment	Heat Dissipation System	Fanless Passive Cooling		
	Operating Temperature	-20~60℃ (Industrial SSD)		
	Storage Temperature	-40~80℃ (Industrial SSD)		
	Relative Humidity	10 to 90% RH (non-condensing)		
	Vibration During Operation	With SSD: IEC 60068-2-64 (3Grms@5~500Hz, random, 1hr/axis)		
	Shock During Operation	With SSD: IEC 60068-2-27 (30G, half sine, 11ms)		
	Certification	CCC, CE/FCC, RoHS		

## Product Dimensions



# Product I/O

