RM641-CS CM238 QM175

KEY FEATURES

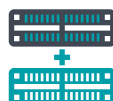### High Performance CPU
9th/8th Gen Intel Core Rackmount 4U Box PC

Server Application
Designed for industrial server application

Multiple Storage
Up to 1 x 3.5"/2.5" SATA drive bay and 3 x optical drive bays

Scalability
1 PCIe x16, 3 PCIe x4, 2 PCI, 1 Mini PCIe

Reliability
Industrial grade components

FC CE RoHS UKCA intel | IoT Solutions Alliance

PANEL

Front View

Bottom View

DIMENSIONS

429.80

173.60

Rear View

451.2

92.00
92.00
92.00
92.00
120.00

Right View

482.60

464.60

37.70

101.60

177.00

Front View (open)

Front View
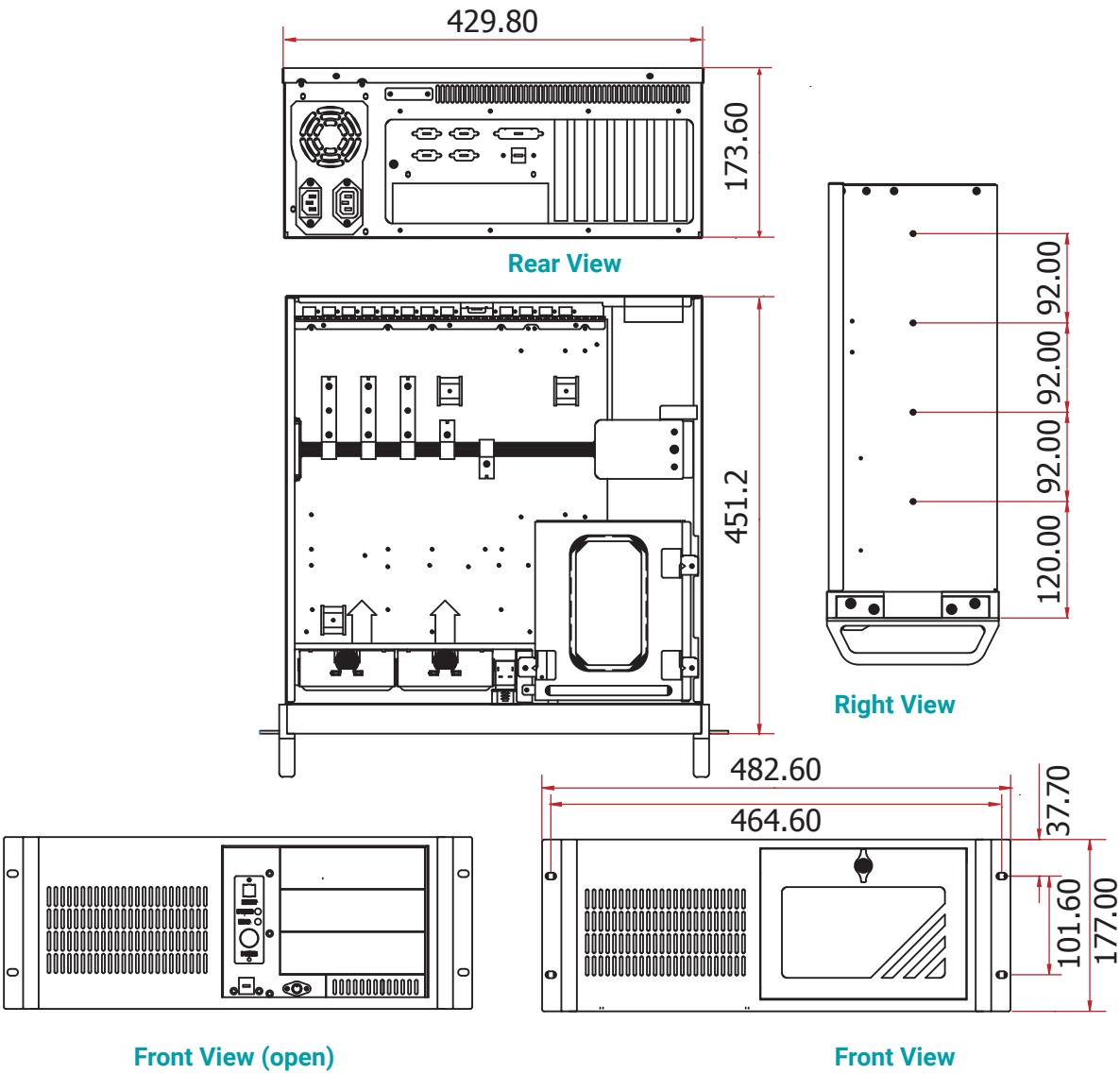
SPECIFICATION

SYSTEM	**Processor**	9th/8th Generation Intel® Core™ /Pentium®/Celeron® LGA 1151 Socket Processors: Intel® Core™, Xeon®, i7/i5/i3, Pentium® and Celeron®, TDP up to 80W
	Chipset	Intel® C246 Chipset
	Memory	Four 288-pin DIMM up to 128GB Dual Channel DDR4 2400/2666MHz (ECC/non ECC)
	BIOS	Insyde SPI 128Mbit
GRAPHICS	**Controller**	Intel® HD Gen 9 Graphics
	Feature	OpenGL 5.0, DirectX 12, OpenCL 2.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9 HW Encode: MPEG2, AVC/H264, JPEG, HEVC/H265, VP8, VP9
	Display	1 x VGA 2 x DP++ VGA: resolution up to 1920x1200@60Hz DP++: resolution up to 4096x2160@60Hz
	Triple Displays	VGA + 2 x DP++
STORAGE	**External**	3 x 5.25" Optical drive bays (Front Accessible) 1 x 3.5" SATA 3.0 drive bay (Front Accessible)
EXPANSION	**Interface**	1 x PCIe x16 (Gen 3) (x8/x8 signals as opt., MOQ required) 3 x PCIe x4 (Gen 3) 2 x PCI 1 x Mini PCIe (PCIe/mSATA, share w/SATA conn. as opt./USB2.0) 1 x M.2 2242/2280 M key (PCIe x4 NVMe, Intel optane memory support)
AUDIO	**Audio Codec**	Realtek ALC887 (ALC888 as opt.)
	Interface	1 x Line-in (available upon request) 1 x Line-out 1 x Mic-in
ETHERNET	**Controller**	1 x Intel® I211AT PCIe (10/100/1000Mbps) 1 x Intel® I219LM PCIe with iAMT12.0 (10/100/1000Mbps) (only Xeon/Core i7/i5 supports iAMT)
LED	**Indicators**	1 x Power LED 1 x HDD LED
FRONT I/O	**USB**	2 x USB 2.0 (available upon request)
	Buttons	1 x Power switch 1 x Reset switch
REAR I/O	**Ethernet**	2 x GbE (RJ-45)
	Serial	1 x RS-232/422/485 (RS-232 w/ power) (DB-9)
	USB	4 x USB 3.1 Gen1 2 x USB 2.0
	Display	1 x VGA 2 x DP++
	Audio	1 x Line-in (available upon request) 1 x Line-out 1 x Mic-in
	PS/2	1 x PS/2 (mini-DIN-6)
WATCHDOG TIMER	**Output & Interval**	System Reset, Programmable via Software from 1 to 255 Seconds
Power	**Supply**	ATX PS/2 power supply 500W AC power input : 90~264V
COOLING	**Fan**	2 x 92cm System fan with quick access filter
OS SUPPORT	**Microsoft**	Windows 10 IoT Enterprise 64-bit
	Linux	Linux
ENVIRONMENT	**Operating Temperature**	0 to 45°C
	Storage Temperature	-20 to 60°C
	Relative Humidity	0 to 90% RH (non-condensing)
MECHANICAL	**Construction**	SECC
	Mounting	Flexible hold down bar
	Dimensions(W x H x D)	483 x 177 x 451mm
	Weight	14.3kg
STANDARDS AND CERTIFICATIONS	**Shock**	Operating: 3G Non-operating: 5G
	Vibration	Operating: random 5~500Hz 1G Non-operating: sweep sine 10~500Hz 1.5G
	Package Drop	ISTA Project 1A
	Certification	CE, FCC, RoHS, UKCA