Roxwell

RXW-1200 Series

12th Gen Intel® Core™
Modular-Designed Embedded System

Key Features

DDR4
DDR4 SODIMM up to 64GB

Wide-Temperature
Operating temperature: -20 to 70°C

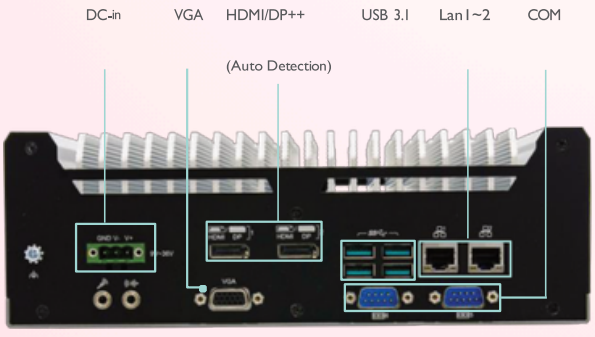
Three Independent Displays
1 VGA + 2 HDMI/DP++ (auto detection)

Multiple Expansion
3 M.2 slots (1 M.2 2230 E key, 1 M.2 3042/3052 B key, 1 M.2 2280 M key)

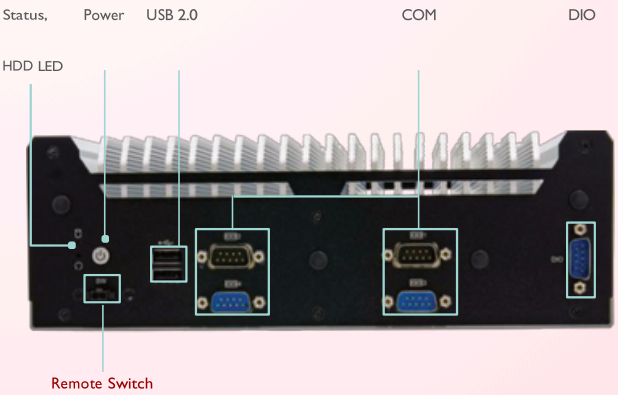
Rich I/O
2 GbE, 6 COM, 4USB 3.1, 2 USB 2.0

Support 5G Communication
Support 5G communication

Panel



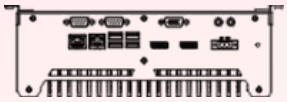
Front View



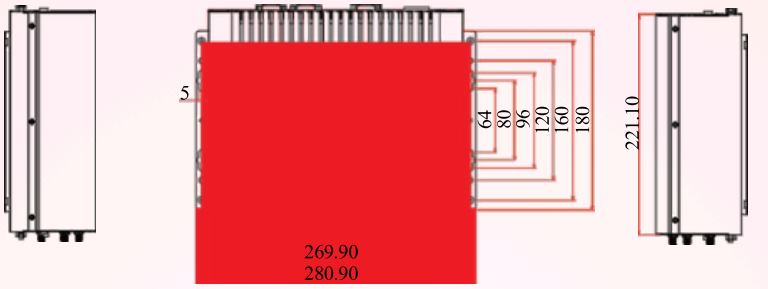
Rear View

Dimensions

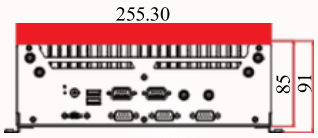
Dimention



Rear View

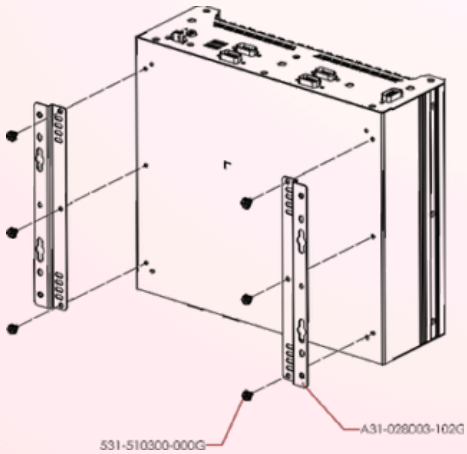


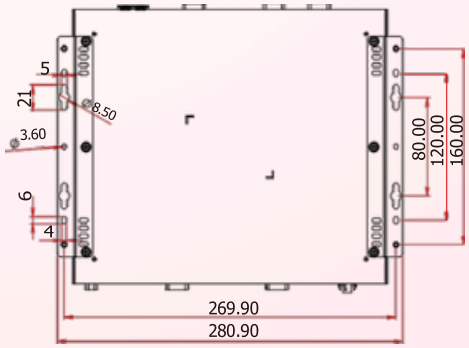
Left View | Top View | Right View



Front View

Wall Mounting





Technical Specifications

Item	Specification		
System	Processor	12th Generation Intel® CoreTM Processors, LGA 1700 Intel® Core™ i9-12900TE (16 Cores, 30M Cache, up to 4.8GHz); 35W Intel®Core™ i7-12700TE (12 Cores, 25M Cache, up to 4.6GHz); 35W Intel® Core™i5-12500TE (6 Cores, 18M Cache, up to 4.3GHz); 35W Intel® Core™ i3-12100TE (4 Cores, 12M Cache, to 4GHz); 35W Intel® Pentium® G7400TE (2 Cores, 6M Cache, 3GHz); 35W Intel® Celeron® G6900TE (2 Cores, 4M Cache, 2.4GHz); 35W	
	Chipset	-	
	Memory BIOS	-	
STORAGE	Internal	2 x 2.5" SATA 3.0 Drive Bay support RAID 0/1 (Q670E/R680E)	
GRAPHICS	Controller Feature	Intel® HD Graphics OpenGL up to 5.0, DirectX 11, OpenCL 2.1 HW Decode: HEVC/H.265, H.264, M/JPEG, MPEG2, VC1/WMV9, Vp8 (8-bit), VP9 (10-bit) HW Encode: HEVC/H.265, M/JPEG, MPEG2, VP8	
	Display	1 x VGA 2 x HDMI/DP++ (auto detection)	VGA: resolution up to 1920x1200 @ 60Hz HDMI: resolution up to 4096x2160 @ 30Hz DP++: resolution up to 4096x2304 @ 60Hz
Audio	Audio Codec	Realtek ALC888	
Ethernet	Controller	2 x Intel® I225IT PCIe (10/100/1000Mbps)	
LED	Indicators	1 x Status LED 1 x HDD LED	
FRONT I/O	Serial	4 x RS-232/422/485 (DB-9)	
	USB	2 x USB 2.0 (type A)	
	DIO	8 bit (DB-9)	
	Buttons	1 x Power button 1 x Reset button	
	Antenna	4 x Antenna hole	
REAR I/O	Construction	4 x GbE (RJ-45)	
	Serial	2 x RS-232 (DB-9)	
	USB	4 x USB 3.1 (type A)	
	Display	VGA + 2 x HDMI/DP++ (auto detection)	
	Audio	1 x Line-out 1 x Mic-in	

Disclaimer: As per our company policy one of the constant product improvements the right is there for reserved to modify the product specification on without prior notice and the picture shown in the datasheet is a design base, the actual picture may vary.

Technical Specifications

Item	Specification	
WATCHDOG TIMER	Output & Interval	System reset, programmable via software from 1 to 255 seconds
SECURITY	TPM	TPM 2.0
UPGRADATION	Firmware Update	Firmware UpdateOut of band Management facility for future upgradation of the Firmware and Software
POWER	Type	Wide range 9~36V
	Connector	3-pole terminal nlock 3-pin power extension switch connector
OS SUPPORT	Windows	Windows 10 IoT Enterprise 2021 LTSC
	Linux	Linux (available upon request)
Audio	Audio Codec	Realtek ALC888
MECHANISM	Construction	Metal + Aluminum
	Mounting Dimensions (WxHxD)	Wall Mount
	Weight	4.15 kg
ENVIRONMENT	Operating Temperature	-20 to 70°C (SSD or M.2 storage)
	Storage Temperature	-20 to 85°C 5 to 95% RH (non-condensing)
	Relative Humidity	5 to 95% RH (non-condensing)
STANDARDS AND CERTIFICATIONS	Shock	Half sine wave 3G, 11ms, 3 shock per axis
	Vibration	EC68-2-64
	Certification	CE, FCC Class A, RoHS, BIS

SPECIFICATION

Item	Specification	
MECHANISM	Construction	Metal + Aluminum
	Mounting	Wall Mount
	Dimensions (W x H x D)	255.3 x 85 x 224mm
	Weight	4.15 kg
ENVIRONMENT	Operating Temperature	-20 to 70°C (SSD or mSATA) -20 to 85°C 5 to 95% RH (non-condensing)
STANDARDS AND CERTIFICATIONS	Shock Vibration Certification	Half sine wave 3G, 11ms, 3 shock per axis IEC68-2-64 CE, FCC Class A, RoHS, BIS

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