



LAND



SEA



AIR



# ROC28588

1 U FANLESS 19" ,AC-DC REDUNDANT  
SERVER WITH INTEL®



## POWER AUTOMATION COMPUTER

- Intel® Coffee Lake-Refresh i7-9700TE (8 Cores, 3.8GHz)
- 2 x SO-DIMM DDR4 2400/2666 MHz up to 64GB
- 1 x PCIe x16 Slot
- 1 x M.2(Key M, PCIe x4 and SATA3)Expansion Slot
- 4 x USB3.1, 3 x DisplayPort, 2 x LAN, 1 x Line-out/Mic

# Specifications

## SYSTEM

High Performance Processor	Socket LGA 1151 for Intel® Core i7/i5/i3/Celeron® (Supports up to 65W) Intel® Core™ i7-9700TE (8C x 3.8 GHz), 12MB Cache
Memory type	2 x SO-DIMM DDR4 2400/2666 MHz up to 64GB
Chipset	Intel® Q370 Chipset
Expansion Slot	1 x PCIe x16 (Graphics card dimension should not be large than 170x110mm) 1x M.2 (Key M, 2242/2260/2280) with PCIe x4 and SATA3

## STORAGE

Display Port	Resolution up to 4096 x 2304 60@Hz
HDD/SDD	2 x 2.5" SATA HDD/SSD easy swap tray

## ETHERNET

Ethernet	Intel® I210 & I219LM GbE LAN (support 10/100/1000 Mbps for x2 RJ45 ports)
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## REAR I/O

Display Port	3 x DP, resolution up to 4096 x 2304
Ethernet	2 x RJ45 Intel® I210 & I219LM GbE LAN (support 10/100/1000 Mbps)
Audio	2 x 3.5mm Audio Jacks (1 x MIC, 1 x Line-Out)
COM	1 x RS232/422/485
USB Port	4 x USB 3.1(10Gb/s)
AC-IN	1 x AC Inlet

## FRONT I/O

Button	1 x Power Button w/Indicator LED
Indicator LED	HDD
USB Port	2 x USB 2.0
Easy Swap SSD Tray	2

## APPLICATIONS, OPERATING SYSTEM

Applications	Commercial and Industrial Platforms, Embedded Computing, Process Control, Intelligent Automation and manufacturing applications
Operating System	Windows 10 64Bit Ubuntu13.04, Ubuntu13.10, Ubuntu14.04, Fedora 20

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**PHYSICAL**

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Dimension (W x D x H)	440 x430 x 44 mm
Weight	8.92Kg
Chassis	SECC
Heatsink	Aluminum Alloy, Corrosion Resistant
Finish	Anodic aluminum oxide

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**ENVIRONMENTAL**

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MIL-STD-810G Test	Method 507.5, Procedure II (Temperature & Humidity) Method 501.5, Procedure I (Storage/High Temperature) Method 501.5, Procedure II (Operation/High Temperature) Method 502.5, Procedure I (Storage/Low Temperature) Method 502.5, Procedure II (Operation/Low Temperature) Method 503.5, Procedure I (Temperature shock)
Green Product	RoHS compliance
Operating Temperature	w/o Graphic Card (ET: -20 to 60°C; UT: -30 to 70°C) ; w/Graphic Card (0 to 50°C)
Storage Temperature	-40 to 85°C
Relative Humidity	5% to 95%, non-condensing
EMC	CE and FCC compliance

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## Ordering Information

ROC285BB-ET

19" 1U Rack-mount Rugged Fanless System with Intel® Coflake Core i7-9700TE, Intel® UHD Graphics 630 with 3 DisplayPort, 1 x PCIe x16, 1 x M.2, 90~260V AC-in, Operating Temp. -20~+60°C

ROC285BB-UT

19" 1U Rack-mount Rugged Fanless System with Intel® Coflake Core i7-9700TE, Intel® UHD Graphics 630 with 3 DisplayPort, 1 x PCIe x16, 1 x M.2, 90~260V AC-in, Operating Temp. -30~+70°C