

# ANR-R680A

1U Rackmount Network server Intel® 13th Gen Raptor Lake, Core™ i9, i7, i5, i3, 2 Exp. NIMs



## Features

- 4 x UDIMM DDR5
- 2 x Exp. NIM (1G/10G/40G, Fiber/Copper/LAN Bypass)
- 1 x Serial Console (RJ-45)
- 2 x 1G Fiber
- 9 x GbE Copper with 2-pairs LAN Bypass
- 2 x 2.5" SATA-III
- 1 x M.2
- Optional for ATX 300W or 1+1 Redundant PSU (300W)



## Specification

### System

CPU	Intel® Comet Lake-S Core™ i9-13900E Intel® Comet Lake-S Core™ i7-13700E Intel® Comet Lake-S Core™ i5-13500E Intel® Comet Lake-S Core™ i3-13100E
Chipset	Intel® R680E PCH
Memory	4 x UDIMM DDR5
BIOS	AMI
WatchDog Timer	Software programmable 0~255 sec.

### Ethernet

Ethernet port	9 x GbE Copper (RJ-45) 2 x 1G Fiber
LAN Bypass	2-Pair Bypass -1st LAN bypass by LAN[1:2] -2nd LAN bypass by LAN[3:4]

### Storage

HDD Bay	2 x 2.5"/3.5" SATA-III
M.2	1 x M.2 B key Socket 2242 or 2280

### I/O

Console port	1 x Serial Console (RJ-45)
USB port	2 x USB 3.2 Gen1.(Front-Side)
Expansion	ANR-R680A1 : 2 x NIM module.(PCIe x 8)(for) ANR-R680A2 : 2 x NIM module (PCIe x 8, PCIe x 4) 1 x PCIe x 8 slot
LCD Module	16 characters x 2 lines with 4-key button(optional)
GPIO	8-bit GPIO (4-In, 4-Out), on-board pin header
Exp. NIM	2 x Exp. NIM(1G/10G/40G, Fiber/Copper/ LAN Bypass)

### Video

Video Interface	VGA(Rear-Side)
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### Others

Battery	Lithium Battery, 3V 220mAH (CR2032)
Hardware Monitoring	CPU Volt. CPU & SYS Temp. FAN Speeds
Security	TPM 2.0

### Power Requirement

Power Unit	BOM Optional For 1x ATX PSU(300W), 100-240V or 1+1 Redundant PSU(300W), 100-240V
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### Software

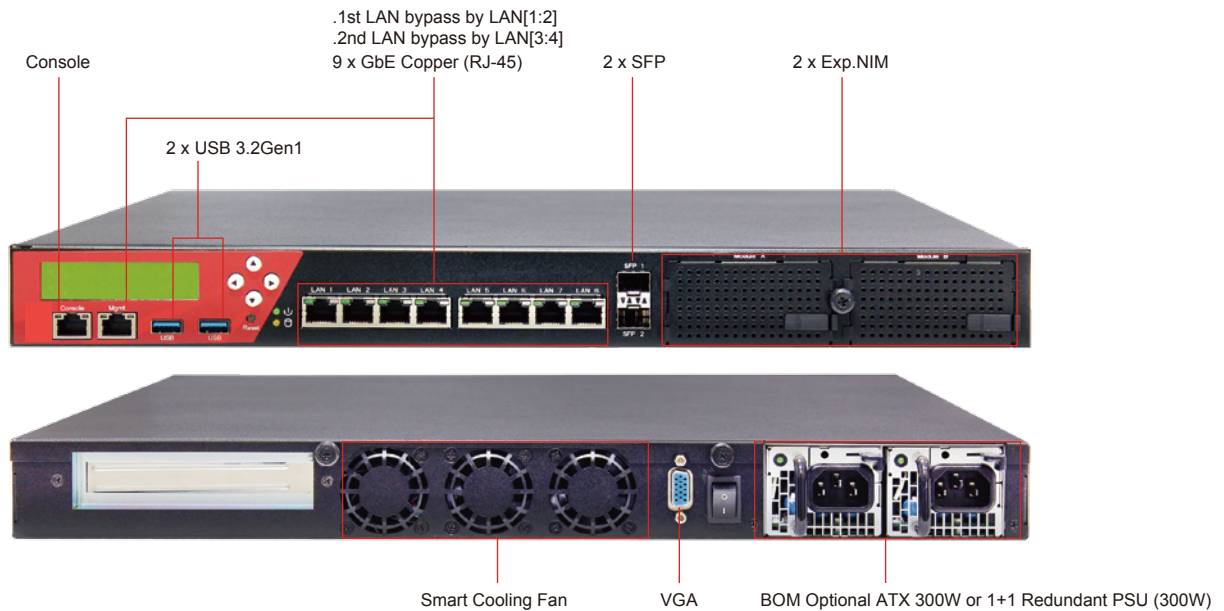
OS Support	Linux kernel 5.2 and above
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### Mechanical & Environment

Dimensions	440(W) x 44(H) x 470(D)mm
Operating Temp.	0~ 40°C (32~104°F)
Storage Temp.	-20~80°C (-4~176°F)
Relative Humidity	0 to 90% @40°C, non-condensing
Certifications	CE, FCC Class A, RoHS 2,

### Model Name

ANR-R680A1	.1U Rackmount Network Server .Intel® 13th Gen , Core™ i9/i7/i5/i3 .2 x Exp. NIM (1G/10G/40G, Fiber/Copper/LAN Bypass) .9 x 1G GbE .2 x 2.5" SATA-III .1 x M.2 .ATX PSU (300W)
ANR-R680A2	.1U Rackmount Network Server .Intel® 13th Gen , Core™ i9/i7/i5/i3 .1 x Exp. NIM(1G/10G/40G/Copper/Fiber/LAN Bypass) .1 x Exp. NIM (1G/10G/Copper/Fiber/LAN Bypass) .9 x 1G GbE .2 x 1G Fiber .2 x 2.5" SATA-III .1x PCIe x8 slot .1 x M.2 .1+1 Redundant PSU (300W)



## Packing List

● ANR-R680A-system x 1
● SATA cable x 2
● RJ45 console cable (RJ45 <-> DB9) x 1
● Rack bracket x 1
● Box packing x 1
● Screw pack x 1

## Ordering Information

ANR-R680A1	.1U Rackmount Network Server .Intel® 13th Gen , Core™ i9/i7/i5/i3 .2 x Exp. NIM (1G/10G/40G, Fiber/Copper/LAN Bypass) .9 x 1G GbE .2 x 2.5" SATA-III .1 x M.2 .ATX PSU (300W)
ANR-R680A2	.1U Rackmount Network Server .Intel® 13th Gen , Core™ i9/i7/i5/i3 .1 x Exp. NIM(1G/10G/40G/Copper/Fiber/LAN Bypass) .1 x Exp. NIM (1G/10G/Copper/Fiber/LAN Bypass) .9 x 1G GbE .2 x 1G Fiber .2 x 2.5" SATA-III .1x PCIe x8 slot .1 x M.2 .1+1 Redundant PSU (300W)