

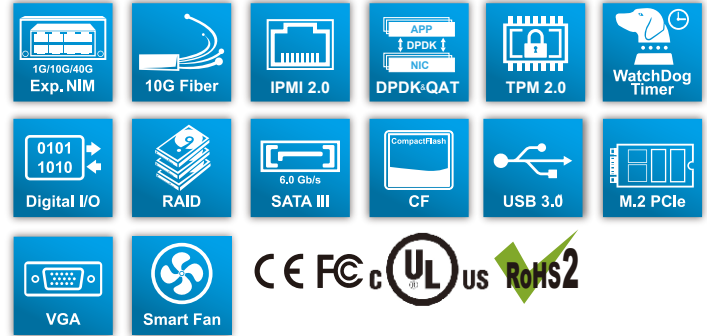
# ANR-EP3KN1

1U Rackmount IoT Gateway/Network Server AMD Snowy Owl EPYC™ 3000 Platform, 4/3 Exp. NIMs & 1+1 Redundant PSU



## Features

- AMD Snowy Owl EPYC™ 3000 SoC
- 8/4 x UDIMM DDR4-2666/2400
- 4/3 x Exp. NIMs (1G/10G/40G, Fiber/Copper/LAN Bypass)
- 1 x Management port
- 2 x 10G Fiber (SFP+)
- 2 x M.2 NVMe (RAID 0/1)
- 3 x Smart Cooling Fan
- 1+1 Redundant PSU / 1 x Single PSU



## Specification

### System

CPU	AMD Snowy Owl EPYC™ 3451 (16C, 2.15G) AMD Snowy Owl EPYC™ 3351 (12C, 1.90G) AMD Snowy Owl EPYC™ 3251 ( 8C, 2.50G) AMD Snowy Owl EPYC™ 3151 ( 4C, 2.70G)
Chipset	SoC
Memory	ANR-EP3KN1-16/12 (4 NIMs SKU) 8 x UDIMM DDR4-2666/2400 ANR-EP3KN1-08/04 (3 NIMs SKU) 4 x UDIMM DDR4-2666/2400
BIOS	AMI
WatchDog Timer	Software programmable 0~255 sec.

### Video

Video Interface	VGA
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### Ethernet

10G	2 x 10G Fiber (SFP+)(4 NIMs SKU only)
LAN bypass	Exp. NIMs supported

### Storage

HDD Bay	ANR-EP3KN1-16/12 (4 NIMs SKU) 4 x 2.5"/3.5" SATA-III Hot-swappable (RAID 0/1/5/10) ANR-EP3KN1-08/04 (3 NIMs SKU) 2 x 2.5"/3.5" SATA-III Hot-swappable (RAID 0/1)
M.2	2 x M.2 M-Key support NVMe (RAID 0/1) (4 NIMs SKU only)
CF/CFast	1 x CF socket (CFast for optional)

### I/O

Console port	1 x Serial console (RJ-45) 1 x USB console (Micro-USB)
USB port	2 x USB 3.0 (front-side)
LCM	Graphic LCM
GPIO	8-bit GPIO (4-In, 4-Out), on-board pin header
Exp. NIM	4/3 x Exp. NIMs Hot-swappable (1G/10G/40G, Fiber/Copper/LAN Bypass)
Exp. PCIe slot	1 x Exp. PCIe Gen3 [16X] slot (FHFL)

Mini PCIe	LTE module supported (optional)
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### Others

Battery	Lithium Battery, 3V 220mAH (CR2032)
Hardware Monitoring	CPU Volt. CPU & SYS Temp. FAN Speeds
Security & Mgmt.	TPM 2.0 (Infineon chipset) IPMI 2.0 (ASPEED AST2500 BMC) Chassis Intrusion Detection
DPDK	Support DPDK

### Power Requirement

Power Supply Unit	ANR-EP3KN1-16/12 (4 NIMs SKU) 1+1 Redundant Platinum PSU (400W) 100-240VAC ANR-EP3KN1-08/04 (3 NIMs SKU) 1 x Single PSU (300W)
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### Software

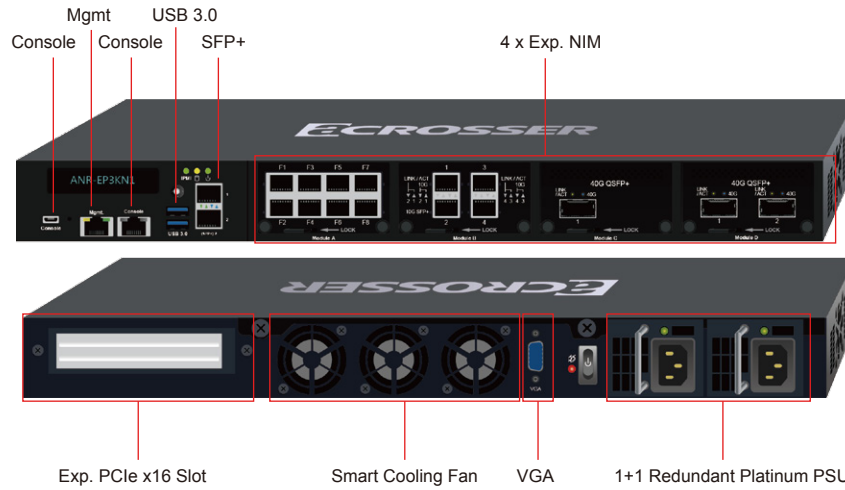
OS Support	Linux Kernel 4.10 or above, (64-bit)
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### Mechanical & Environment

Dimensions	440± 0.5 (W) * 44± 0.2 (H) * 550± 0.5 (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, cULus

### Model Name

ANR-EP3KN1-16/12	.1U Rackmount IoT Gateway/Network Server .AMD Snowy Owl EPYC™ 3000 SoC .4/3 x Exp. NIM (1G/10G/40G, Fiber/Copper/LAN Bypass)
ANR-EP4KN1-08/04	.1 x Management port .2 x 10G Fiber (SFP+) .2 x M.2 NVMe (RAID 0/1) .1+1 Redundant PSU (400W)/1 x Single PSU (300W)



## Packing List

- ANR-EP3KN1 system x 1
- SATA cable x 2
- CD utility x 1
- RJ45 console cable (RJ45 <-> DB9) x 1
- USB console cable (Micro-B <-> Type A) x 1
- USA / EU / JPN / UK / AS / NZS / SA / India power cord x 2
- Rack bracket x 1
- Box packing x 1
- Screw pack x 1
- Slide Rail x 1

## Ordering Information

ANR-EP3KN1-16/12	1U Rackmount IoT Gateway/Network Server, AMD Snowy Owl EPYC™ 3000 SoC, 4x Exp. NIM, 1xMgmt., 2 SFP+, 4 SATA-III, 2 M.2 NVMe, 1+1 Redundant Platinum PSU
ANR-EP3KN1-08/04	1U Rackmount IoT Gateway/Network Server, AMD Snowy Owl EPYC™ 3000 SoC, 3x Exp. NIM, 1xMgmt., 2 SATA-III, 1 Single PSU