

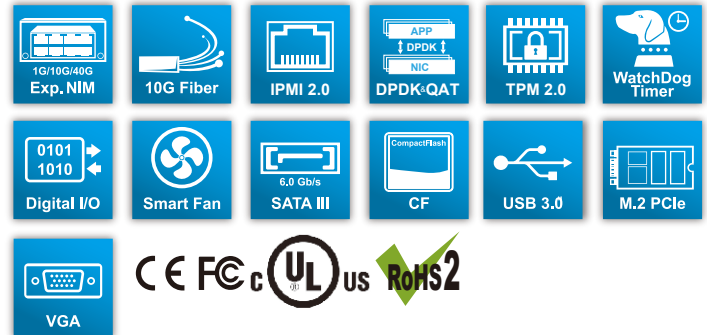
ANR-EP3KN1-series

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
- 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

LAN bypass	Exp. NIMs supported
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Storage

HDD Bay	ANR-EP3KN1-16/12 (4 NIMs SKU) 4 x 2.5"/2 x 3.5" SATA-III Hot-swappable ANR-EP3KN1-08/04 (3 NIMs SKU) 2 x 2.5"/2 x 3.5" SATA-III Hot-swappable
M.2	2 x M.2 M-Key support NVMe (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 (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) 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

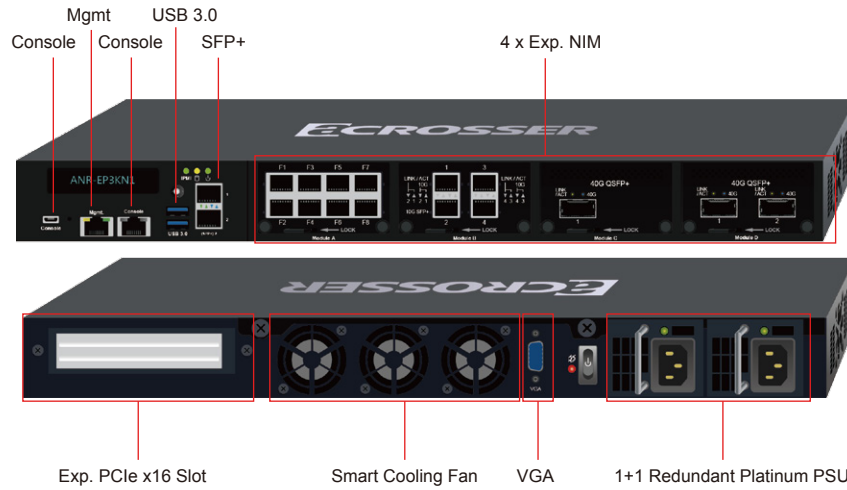
OS Support	Linux Kernel 4.4 or above(64-bit)
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Mechanical & Environment

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 M.2 NVMe .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., 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