



Cheetah RAID
STORAGE

Prowler 2N4U-UM

High Performance Data Logger



Media Entertainment



In-vehicle Data Logger



5G Communications



Military



HIGHLIGHTS

- *High Performance Storage*
- *Equipped with fast AMD Ryzen 3 Processor or Optional AMD EPYC Zen 3 (Milan) CPU*
- *High Bandwidth PCIe Gen4 NVMe Storage*
- *Removable Storage Canister for easy backup process*
- *Support AC or DC power input*
- *Ruggedized design suitable for in-vehicle storage system*

In a current digital world, the transformation waves affecting all of our activities moving to digital increasingly more pronounced. Whether it is IoT (Internet of Things), 5G Networks, Edge Computing, Autonomous Vehicles, or Artificial Intelligence, all require high performance storage system that can log data at speeds far exceeding normal embedded system can sustain.

Cheetahs' Prowler2N4U product series are specifically design to achieve such demands. The system platform designed to be rugged to withstand shocks and vibration for in-vehicle environment, which also equipped with 12V or 24 DC power input. Prowler2N4U also a secure platform that support TPM (Trusted Platform Module) and data encryption using AES-256 encryption and TCG Opal for utmost data protection. In addition, all the drives also protected with RAID 0, 1, 10, 5, 6 for data integrity.

As a data logger platform, Cheetah designed Prowler2N4U platforms to have high performance storage than can support up to 9.6 GB/s throughput of sequential write and 12 GB/s sequential read. The systems can be equip with latest PCIe Gen4 Network Adapter such as 100G or dual 50G NIC.

Any users that choose Cheetahs' Prowler2N4U can be assured that their their edge equipment will not only be optimized to support high performance throughput, but will also withstand many types of harsh conditions.

	Prowler2N4U-Z3	Prowler2N4U-UM
Supported CPU	AMD Ryzen™ 5000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ 5000 Series Desktop Processors AMD Ryzen™ 4000 G-Series Desktop Processors with Radeon™ Graphics AMD Ryzen™ PRO 5000, 4000 and 3000 Series Desktop Processors 3rd Gen AMD Ryzen™ Desktop Processors 2nd Gen AMD Ryzen™ Processors with Radeon™ Graphics	Support AMD EPYC™ 7003 and 7002 Series Processors Socket Single Socket SP3 (LGA4094)
Chipset	AMD X570	System on Chip
Supported RAM	4 DIMM Slots (2DPC) Supports DDR4 260-pin ECC*/non-ECC SODIMM ECC/non-ECC SODIMM: up to 32GB One DIMM: 1R DIMM @2933MT/s; 2R/2DR DIMM@2400T/s Two DIMMs: (2) 1R DIMM @2400 MT/s; (2) 2R/2DR DIMM@2400MT/s	4 DIMM slots (1DPC) DDR4 288-pin RDIMM, LRDIMM, RDIMM/LRDIMM-3DS, NVDIMM RDIMM: up to 64GB; LRDIMM: up to 128GB; RDIMM/LRDIMM-3DS: up to 256GB; NVDIMM: up to 32GB RDIMM/ LRDIMM: max. 3200MHz; NVDIMM: max. 2666MHz
IO Interface	1x DB15 2x Type-A (USB3.2 Gen2) 2x RJ45 1x IPMI	1x DB15 2x Type-A (USB3.2 Gen2) 2x RJ45 1x IPMI
Expansion Slots	One PCIe Gen4 X16 riser supporting 2x PCIe Gen4 X8 FHHL cards – 256Gbps IO bandwidth o support 1x Broadcom 9560-16i PCIe Gen4 X8 tri-mode hardware RAID o One spare slot for NIC, such as 100Gb or dual-50Gb Ethernet	One PCIe Gen4 X16 riser supporting 2x PCIe Gen4 X8 FHHL cards – 256Gbps IO bandwidth o support 1x Broadcom 9560-16i PCIe Gen4 X8 tri-mode hardware RAID o One spare slot for NIC, such as 100Gb or dual-50Gb Ethernet
Drive Bays	4x U.2/U.3 2.5" NVMe PCIe Gen 4 SSD Hot-Swappable NVMe canister	4x U.2/U.3 2.5" NVMe PCIe Gen 4 SSD Hot-Swappable NVMe canister
Cooling	3x 60x25mm high-speed cooling fans	3x 60x25mm high-speed cooling fans
Front Panel	Power On/OFF with LED, reset Switch, NMI switch, Locate Switch with LED, 4x LAN LED, Warning LED	Power On/OFF with LED, reset Switch, NMI switch, Locate Switch with LED, 4x LAN LED, Warning LED
Supported OS	Windows® 10 64bit	Microsoft® Windows: Server 2016 (64bit), Server 2019 (64bit) Linux: RedHat Enterprise Linux Server 8.2 (64bit) / 7.9 (64bit) CentOs 8.2 (64 bit) / 7.9 (64 bit) SUSE SLES 15.2(64 bit) / 12.5(64bit) UBuntu 20.04.1 (64 bit) /18.04.5 (64 bit) / 16.04.7 (64 bit) Hypervisor: VMWare® ESXi 6.7 u3 / 7.0 u1 vSphere 6.7 u3 / 7.0 u1 CITRIX Hypervisor 8.1.0
Power	12V (22A) or 24V (11A) DC input Molex 6pin optional 280W AC/DC Power Adapter 85~264VAC 47~63Hz	12V (22A) or 24V (11A) DC input Molex 6pin optional 280W AC/DC Power Adapter 85~264VAC 47~63Hz
Weight	System w/ magazine loaded with drives - 15lbs	System w/ magazine loaded with drives - 16lbs
Dimension	10.2" (D) x 11.8" (W) x 3.43" (H)	10.2" (D) x 11.8" (W) x 3.43" (H)
Environmental	Operation temperature: 10°C ~ 35°C / Non operation: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)	Operation temperature: 10°C ~ 35°C / Non operation: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)