# Cheetah RAID
STORAGE

# Prowler2 2U2C-UM
## High Performance Data Logger
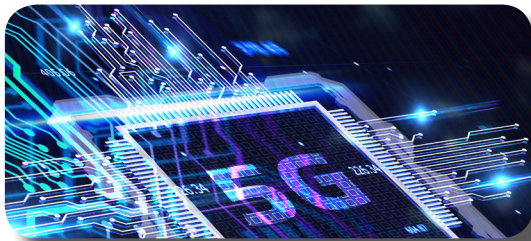


## Media Entertainment



## In-vehicle Data Logger



## 5G Communications



## Military



## HIGHLIGHTS

- *High Performance Storage*
- *Single Socket SP3 (LGA 4094), supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology*)/7002 series processors*
- *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, Aircraft, ship, Media and Entrainment storage system.*

In a current digital world, the transformation waves affecting all of our activities moving to digital increasingly more pronounce. 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' Prowler2 2U2C 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. Prowler2 2U2C 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 13.0 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' Prowler2 2U2C 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.

| Prowler2 2U2C | |
|---|---|
| **Supported CPU** | Supports AMD EPYC™ 7003 (with AMD 3D V-Cache™ Technology*)/7002 Series Processors |
| **Chipset** | System on Chip |
| **Supported RAM** | 4 DIMM slots (1DPC)<br>Supports DDR4 288-pin RDIMM, LRDIMM, RDIMM/LRDIMM-3DS, NVDIMM-N<br>RDIMM: up to 64GB LRDIMM: up to 128GB<br>RDIMM/LRDIMM-3DS: up to 256GB<br>NVDIMM-N: up to 32GB<br>RDIMM/ LRDIMM/NVDIMM-N: max. 3200MHz |
| **IO Interface** | 1x DB15<br>2x Type-A (USB3.2 Gen2)<br>2x RJ45 1x IPMI |
| **Expansion Slots** | One PCIe Gen4 X16 riser supporting 2x PCIe Gen4 X8<br>FHHL cards – 256Gbps IO bandwidth<br>o support 1x Broadcom 9560-16i PCIe Gen4 X8 tri-mode hardware RAID<br>o One spare slot for NIC, such as 100Gb or dual-50Gb Ethernet |
| **Drive Bays** | **8**x U.2/U.3 2.5" NVMe PCIe Gen 4 SSD<br>Hot-Swappable NVMe canisters |
| **Cooling** | 3x 60x25mm high-speed cooling fans |
| **Front Panel** | Power On/OFF with LED, reset Switch, NMI switch,<br>Locate Switch with LED, 4x LAN LED, Warning LED |
| **Supported OS** | **Microsoft® Windows:**<br>Hypervisor:<br>VMWare® ESXi 6.7 u3 / 7.0 u1<br>vSphere 6.7 u3 / 7.0 u1<br>CITRIX Hypervisor 8.1.0<br><br>**Linux:**<br>RedHat Enterprise Linux Server 8.2 (64bit) / 7.9 (64bit)<br>CentOs 8.2 ( 64 bit) / 7.9 ( 64 bit)<br>SUSE SLES 15.2(64 bit) / 12.5(64bit)<br>UBuntu 20.04.1 (64 bit) /18.04.5 (64 bit) / 16.04.7 (64 bit)<br><br>**Hypervisor:**<br>VMWare® ESXi 6.7 u3 / 7.0 u1<br>vSphere 6.7 u3 / 7.0 u1<br>CITRIX Hypervisor 8.1.0 |
| **Power** | 12V (22A) or 24V (11A) DC input Molex 6pin<br>optional 280W AC/DC Power Adapter 85~264VAC<br>47~63Hz |
| **Weight** | System w/ magazine loaded with drives - 21lbs |
| **Dimension** | 16.6" (W) x 3.43" (H)  10.6" (D) |
| **Environmental** | Operation temperature: 10°C ~ 35°C / Non operation:<br>-40°C ~ 70°C<br>Non operation humidity: 20% ~ 90% ( Non condensing) |