



Cheetah RAID  
STORAGE

# Prowler 2N4U-UM

High Performance Data Logger



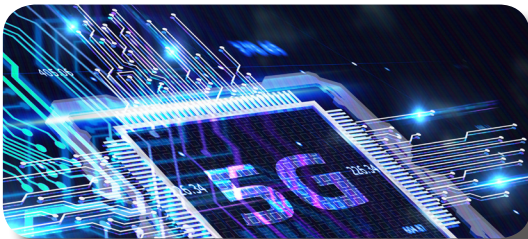
## Media Entertainment



## In-vehicle Data Logger



## 5G Communications



## Military



## HIGHLIGHTS

- *High Performance Storage*
- *13th/ 12th Generation Intel Pentium/Celeron Processor*  
*Intel Core i9/Core i7/Core i5/Core i3*  
*Single Socket LGA-1700 supported*
- *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 10 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.

# Autonomous Vehicles, Media and Entertainment, Military and Data Centers

## Prowler2N4U-UM

**Supported CPU** **Embedded** 13th/12th Generation Intel® Core™ i9/i7/i5/i3/Pentium/Celeron Processor, Single Socket LGA-1700 supported, CPU TDP supports Up to 65W TDP  
Up to 24 cores

**Supported RAM** Up to 64GB Unbuffered non-ECC SODIMM, DDR4-3200MHz, in 2 SODIMM slots  
3200/2933/2666 MT/s non-ECC DDR4 SODIMM Unbuffered  
4GB, 8GB, 16GB, 32GB

**Chipset** Intel Q670E

**IO Interface** **USB:**  
4 USB 3.2 Gen2 port(s) (4 rear type A)

**Video Output**  
1 HDMI 2.0b port(s), 2 DP (DisplayPort) port(s), 1 HDMI port(s), 1 LVDS port(s) Serial Port  
1 COM Port(s) (1 header)

**TPM:**  
TPM Header & Chip both

**Expansion Slots** 1 PCIe 5.0 x16 slot (16/NA or 2x PCIe Gen4 X8 FHHL cards)

- Supports 1x Broadcom 9560-16i, Microchip or GRAID GPU PCIe Gen4 X8 tri-mode hardware RAID
- One spare slot for Quad port M12 NIC, 200Gb or dual-50Gb Ethernet

**Drive Bays** 4x U.2/U.3 2.5" NVMe PCIe Gen 4 SSD  
Hot-Swappable NVMe canister

**Cooling** 2x 60x25mm + 1x 60x38mm high-speed cooling fans

**Front Panel** Power On/OFF with LED, reset Switch, NMI switch,  
Locate Switch with LED, 4x LAN LED, Warning LED

**Supported OS** 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

**Weight** System w/ magazine loaded with drives - 15lbs.

**Dimension** 10.2" (D) x 11.8" (W) x 3.43" (H)

**Environmental** Operation temperature: 10°C ~ 50°C / Non operation:-40°C - 85°C  
Non Operating Relative Humidity Range 10% - 95% (non-condensing)



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