Cheetah RAID
S T O R A G E

CRSSAN2N12U-UM

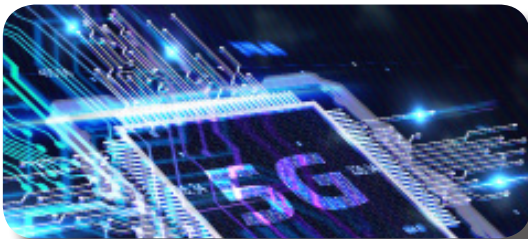## High Performance Ingest Station

Media Entertainment

In-vehicle Data Logger

5G Communications

Military

HIGHLIGHTS

- *3x individual hot-pluggable Gen4 NVMe canisters*
- *AMD EPYC Zen 3 (Milan) CPU*
- *Individual hardware RAID for each canister (optional)*
- *Supports 200GbE PCIe Gen4 network adapters*
- *23.4" Short depth storage server*
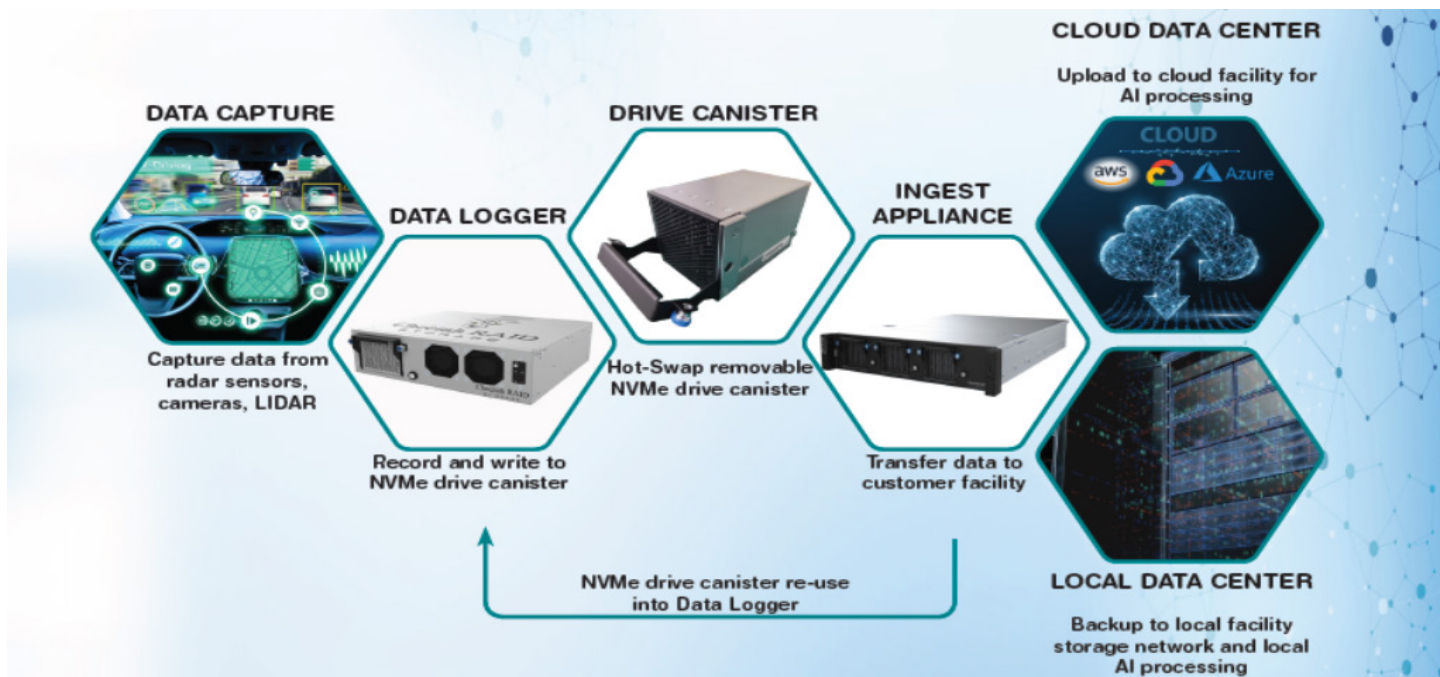- *Removable storage canister for easy backup process*

A high performance server can only perform as fast as its weakest link, and in many cases, the weakest link is commonly the storage as it's often overlooked. Cheetah's CRSSAN2U3N is specially designed to address this Achilles' heel by offering a high performance AMD (Milan) server that supports 3x individual Gen4 canisters. Its canisters are compatible with Cheetah's CRSSAN2N4U (a portable data logger) and allows the canisters to migrate data from a moving vehicle to a data center instantly.

By supporting AMD (Milan) CPUs, CRSSAN2U3N also excels in processing prowess. With its detailed airflow considerations, this system can support AMD EPYC Milan's maximum 64 cores and 128x Gen4 PCIe lanes. The latest AMD EPYC cores allow the server to carry out the most demanding applications while offering low-latency access to the storage via its vast amount of Gen4 PCIe lanes.

The individual canister design allows data to be logged and processed separately. Once data is processed, the canister can hot-swap and migrate to a different location. With the canister design, data migration is no longer bound to the external network fabric. The canisters support SED drives and can be encrypted to provide maximum data security.

Each CRSSAN2U3N canister can be connected via 16x PCIe Gen4 Lanes to the AMD CPU directly or via a hardware NVMe RAID controller. This offers the flexibility for customer to choose between high storage performance or hardware RAID convenience. CRSSAN2U3N allows each canister to connect to a dedicated hardware RAID controller to ensure adequate RAID5 read and write performance.

Autonomous Vehicles, Media and Entertainment,
Military and Data Centers

CRS **SAN2N12U-UM**	
Supported CPU	Support AMD EPYC™ 7003 and 7002 Series Processors Socket Single Socket SP3 (LGA4094)
Chipset	System on Chip
Supported RAM	8 DIMM slots (1DPC) Supports up to 2TB Registered ECC DDR4 3200MHz SDRAM 8-channel memory bus
IO Interface	1x COM Port 1x VGA Port 4x Type-A (USB3.0) 2x RJ45 1x IPMI
Expansion Slots	5 PCI-E 4.0 x16 & 2 PCI-E 4.0 x8 - Supports 3x Broadcom/Microchip Hardware RAID Controllers or 3x Gen4 x16 Retimer Cards - Four spare slots for Network Adapters or Hardware Accelerators
Drive Bays	12x U.2/U.3 2.5" NVMe PCIe Gen 4 SSDs via 3 Hot-Swappable NVMe canisters
Cooling	4x 80x38mm 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	800W Redundant Power Supply
Environmental	Operation temperature: 10°C ~ 35°C / Non operation: -40°C ~ 70°C Non operation humidity: 20% ~ 90% (Non condensing)

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Cheetah RAID
STORAGE

Cheetah RAID Storage
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