High Density Arm Server - 2U 4-Node 16-Bay NVMe DLC

- **Features**
  - Direct liquid cooling solution
  - High-performance CPU for HPC and cloud computing
  - 2U 4-node rear access server system
  - NVIDIA Grace CPU Superchip
  - 900GB/s NVLink-C2C Interconnect
  - Up to 960GB LPDDR5X ECC memory per module
  - Compatible with NVIDIA BlueField®-3 DPU
  - 4 x Dedicated management and 1 x CMC ports
  - 16 x 2.5" Gen5 NVMe hot-swappable bays
  - 8 x M.2 slots with PCIe Gen5 x4 interface
  - 4 x FHHL PCIe Gen5 x16 slots
  - 4 x OCP 3.0 Gen5 x16 slots
  - 2+1 3000W 80 PLUS Titanium redundant power supplies

- **Specification**
  - **Dimensions**: 2U 4-Node - Rear access (W440 x H87.5 x D850 mm)
  - **Motherboard**: MV63-HD0
  - **Superchip (per node)**: NVIDIA Grace CPU Superchip:
    - 2 x Grace CPUs
    - Connected with NVLink-C2C
    - TDP up to 500W (CPU + memory)
  - **Memory (per node)**: Up to 960GB of LPDDR5X memory with ECC
    - Memory bandwidth up to 1TB/s
  - **LAN**: 4 x Dedicated management ports
    - 1 x CMC port
  - **Video**: Integrated in Aspeed® AST2600
    - 2D Video Graphic Adapter with PCIe bus interface
    - 1920x1200@60Hz 32bpp
    - Management chip on CMC board:
    - Integrated in ASPEED AST2520A2-GP
  - **Storage**: Total 16 x 2.5" Gen5 NVMe hot-swappable bays
  - **Expansion Slots**: 4 x FHHL PCIe Gen5 x16 slots
  - **4 x OCP 3.0 Gen5 x16 slots
  - 8 x M.2 slots: M-key, PCIe Gen5 x4, supports 2280/22110 cards
  - **Rear I/O**: 8 x USB 3.2 Gen1, 4 x VGA, 4 x MLAN, 1 x CMC port
  - **TPM**: 1 x TPM header with SPI interface
    - Optional TPM2.0 kit: CTM012
  - **Power Supply**: 2+1 3000W 80 PLUS Titanium redundant power supplies
    - AC Input: 100-240V
  - **System Management**: ASPEED AST2600 management controller
    - GIGABYTE Management Console (AMI MegaRAC SP-X)
  - **OS**: Ubuntu 22.04.3 arm64
    - Red Hat Enterprise Linux server 9.3 aarch64
  - **System Fans**: 4 x 80x80x80mm (16,500rpm)
  - **Operating Properties**: Operating temperature: 10°C to 40°C
    - Operating humidity: 8-80% (non-condensing)
    - Non-operating temperature: -40°C to 60°C
    - Non-operating humidity: 20%-95% (non-condensing)
  - **Packaging Content**: 1 x H263-V60-LAW1
    - 1 x 3-Section Rail kit
  - **Reference Numbers**: Barebone package: 6NH263V60MR000LAW1
    - Motherboard: MV63HDUR-000
    - 3-Section Rail kit: 25HB2-A66125-K0R
    - Power supply: 25EP0-23000L-00S
    - Optional parts:
      - GIGABYTE Superchip coldplate loop: 25H26-3V60000-E43X (QPA:4)
      - GIGABYTE 2U4N Manifold: 25H27-3Z80000-E07X (1 set per rack)

Learn more about GIGABYTE server, visit [https://www.gigacomputing.com](https://www.gigacomputing.com)