



LAND



SEA



AIR

# HORUS220

1U Rugged Virtualization Supercomputer v256

Cores (5th Xeon-SP)



- 1U Rugged Virtualization Supercomputer v256 Cores
- 5th Dual Intel® Xeon® Scalable Processor up to 32 Cores , Per Node 64 Cores
- Support Nvidia L4 GPU Card
- 2x USB2.0 ; 1x IPMI ; 1x VGA ; 2x SFP28 25GbE
- 8x Removable M.2 SSD Storages Tray
- 1U Rugged Short Depth lightweight chassis
- Ultra Short Depth 22" (55CM)
- MIL-STD 810 Anti-Vibration, Shock



# Specifications

## System

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| High performance Processor | 5th Dual Intel® Xeon® Scalable Xeon® 6538N (32Core/64 Threads , up to 4.10GHz),205W |
|----------------------------|-------------------------------------------------------------------------------------|

|             |                                                                       |
|-------------|-----------------------------------------------------------------------|
| Memory Type | 5th CPU support 16 x 260Pin DDR5 5600MHz RDIMM ECC, up to 1.5TB       |
|             | 5th CPU support 16 x 260Pin DDR5 5600MHz RDIMM-3DS(2CH)ECC, up to 2TB |
|             | 5th CPU support 16 x 260Pin DDR5 5600MHz RDIMM-3DS(4CH)ECC, up to 4TB |

|         |            |
|---------|------------|
| Chipset | Intel® 741 |
|---------|------------|

|           |                           |
|-----------|---------------------------|
| Expansion | PCIe5.0 x 16 Slot         |
|           | OCP NIC3.0 (PCIe5.0 x 16) |

|     |                 |
|-----|-----------------|
| GPU | NVIDIA Tesla L4 |
|-----|-----------------|

## Display

|         |                |
|---------|----------------|
| Chipset | ASPEED AST2600 |
|---------|----------------|

|     |       |
|-----|-------|
| VGA | 1xVGA |
|-----|-------|

## Storage

|         |                                        |
|---------|----------------------------------------|
| HDD/SDD | 1x M.2 2TB and 4 x 16TB U.2 or SAS HDD |
|---------|----------------------------------------|

## Ethernet

|         |                   |
|---------|-------------------|
| Chipset | Broadcom BCM57414 |
|---------|-------------------|

|      |                |
|------|----------------|
| Type | 2x SFP28(25GB) |
|------|----------------|

## RAID

|      |                       |
|------|-----------------------|
| RAID | Support RAID 0,1,5,10 |
|------|-----------------------|

## FRONT I/O

|         |                  |
|---------|------------------|
| HDD LED | 1x HDD LED (Red) |
|---------|------------------|

|     |                          |
|-----|--------------------------|
| SSD | 8x Hot Swap M.2 SSD tray |
|-----|--------------------------|

|              |                         |
|--------------|-------------------------|
| Power On LED | 1x Power on LED (Green) |
|--------------|-------------------------|

## Rear I/O

|     |           |
|-----|-----------|
| USB | 2x USB2.0 |
|-----|-----------|

|     |       |
|-----|-------|
| VGA | 1xVGA |
|-----|-------|

|      |         |
|------|---------|
| IPMI | 1x IPMI |
|------|---------|

|     |                |
|-----|----------------|
| LAN | 2x SFP28 25GbE |
|-----|----------------|

|              |                              |
|--------------|------------------------------|
| PCIe5.0 x 16 | 1x PCIe5.0x16 expansion slot |
|--------------|------------------------------|

|        |                              |
|--------|------------------------------|
| OCP3.0 | 1x OCP3.0 NIC expansion slot |
|--------|------------------------------|

|       |                           |
|-------|---------------------------|
| Power | 1x AC-IN 3P C14 connector |
|-------|---------------------------|

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### Power Requirement

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|             |                         |
|-------------|-------------------------|
| Power Input | 750W AC-IN 110~220V PSU |
|-------------|-------------------------|

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### OS

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|            |                                              |
|------------|----------------------------------------------|
| OS Support | Windows®10 64-bit, Linux(Support by request) |
|------------|----------------------------------------------|

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### Environmental & Physical

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|                       |                     |
|-----------------------|---------------------|
| Dimension (W x D x H) | 480 x 550 x 44 (mm) |
|-----------------------|---------------------|

|     |                       |
|-----|-----------------------|
| EMC | CE and FCC compliance |
|-----|-----------------------|

|               |                       |
|---------------|-----------------------|
| Green Product | RoHS, WEEE compliance |
|---------------|-----------------------|

|                 |           |
|-----------------|-----------|
| Operating Temp. | 0 to 50°C |
|-----------------|-----------|

|               |             |
|---------------|-------------|
| Storage Temp. | -40 to 85°C |
|---------------|-------------|

|                   |                            |
|-------------------|----------------------------|
| Relative Humidity | 5% to 95%, non-condensing. |
|-------------------|----------------------------|

## Ordering Information

### HORUS220

Rugged 1U Shipboard Server with Intel® 5<sup>th</sup> Dual Intel® Xeon® Scalable Processor up to 32 Cores , 750W 110V to 220V AC-IN , 1xVGA , Operation Temp 0 to 50°C

### HORUS220-L4100G

Rugged 1U Shipboard Server with Intel® 5<sup>th</sup> & 4<sup>th</sup> Dual Intel® Xeon® Scalable Processor up to 32 Cores , 750W 110V to 220V AC-IN, 1x NVIDIA T4, 2x 100G, 1xVGA, Operation Temp 0 to 50°C

|                 | HORUS220                                                                                                                                                                                  | HORUS220-L4100G |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CPU             | Intel® 5 <sup>th</sup> & 4 <sup>th</sup> Dual Intel® Xeon® Scalable Processor up to 32 Cores                                                                                              |                 |
| RAM             | 5 <sup>th</sup> CPU-DDR5 5600MHz RDIMM ECC, up to 1.5TB<br>5 <sup>th</sup> CPU-DDR5 5600MHz RDIMM-3DS(2CH)ECC, up to 2TB<br>5 <sup>th</sup> CPU-DDR5 5600MHz RDIMM-3DS(4CH)ECC, up to 4TB |                 |
| GPU             | N/A                                                                                                                                                                                       | NVIDIA L4       |
| OCP3.0 NIC      | N/A                                                                                                                                                                                       | 2x 100G         |
| Expansion       | 1x PCIe5.0 x16 Slot                                                                                                                                                                       |                 |
| Storage         | Up to 16TB NVMe                                                                                                                                                                           |                 |
| I/O             | 2x RJ45, 6x USB, 2x DP, 2x 2.5" Swap Tray                                                                                                                                                 |                 |
| Power           | AC-IN 110V~240V                                                                                                                                                                           |                 |
| Operation Temp. | 0°C~+50°C                                                                                                                                                                                 |                 |

# Appearance

## Front I/O



## Rear I/O

