



PRO-104 Series Servers

Enterprise Class 1U 4 Bay Rackmount
Video Recording Servers

Key Features

- Hanwha Vision Middle East and Africa Exclusive
- Supports Up to *512 Channels
- Pre-Installed Wisenet SSM VMS
- Single Intel® Xeon® Silver Scalable Processors
- Supports Storage Up to 80TB
- Windows Server 2022 IoT
- SSD, SAS, & SATA
- RAID 0, 1, 5, 6, 10
- iDRAC Enterprise
- Redundant Power
- 5 Year On-Site, NBD, Keep Your Hard Drive Warranty

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PRO-104 Series Servers	
System	
Operating System	Windows Server 2022 IoT
Memory	Single CPU: 32GB (2x16GB) DDR5, RDIMM 4800 MT/s
Storage	M.2 SSD 2x480GB On RAID 1
Processor	(1) Intel Xeon Silver 4410Y Scalable Processors (12Core, 24 Threads, Base Frequency 2.00GHz, Turbo Frequency 3.90GHz)
Networking	(2) 1GbE RJ45 Ports, (2) 10/25Gb SFP28 OCP NIC 3.0
PCIe	1 PCIe slots (1 x 16 Gen4)
Ports	1 x USB 2.0, 1 x USB 3.0, 1 x VGA
Video Outputs	1xVGA
Remote Management	iDRAC9
Storage	
Hard Drive Bays	(4) 3.5" Hot Swappable Bays, (2) M.2 SSD Slots
Maximum Storage	up to 80TB of RAW Storage (20TB)
Hard Drive Supported	PCIe NVMe, SSD, SAS and SATA
RAID	RAID 0, 1, 5, 6, 10
RAID Controller	PERC H755 Controller with 8Gb NVME Cache
Recording Rate Throughput	
Recording Rate	128Channel – Up to 700Mbps, 256Channel – Up to 1.5Gbps 384Channel – Up to 2Gbps, *512Channel – Up to 2.7Gbps * The calculation is based upon these parameters: 1080p @ 30fps, 5Mbps/Channel H.264 * Compatible with other Third-party VMS (for more details please contact our sales team)
Mechanical	
Form Factor	1U
Power Supply	2x800W (100–240VAC) Platinum
Operating Temperature	(Min) 50° F – (Max) 95° F, (Min) 10° C – (Max) 35° C
Operating Humidity	10 ~ 80% (non-condensing)
Heat Dissipation	3000 Max BTU/hr
Dimensions (WxDxH)	18.97" (482mm) x 29.85" (748.79mm) x 1.68" (42.8mm)
Max. Weight	55.33 lbs. (19.45Kg)
Warranty	5 Years On-Site, Next Business Day, Keep your Hard Drive Warranty

Ordering Model Codes (SKU's)

Models	
PRO-104-2-2	1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-1-104-2-2	128Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-2-104-2-2	256Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-3-104-2-2	384Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
*PRO-4-104-2-2	512Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-104-16-4	1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x4TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-1-104-16-4	128Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x4TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-2-104-16-4	256Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x4TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
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*PRO-4-104-16-4	512Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x4TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-104-64-16	1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x16TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-1-104-64-16	128Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x16TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-2-104-64-16	256Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x16TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-3-104-64-16	384Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x16TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
*PRO-4-104-64-16	512Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x16TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD

- Design and Specifications are subject to change without notice
- For HVME Projects Only
- Compatible with other Third-party VMS (for more details please contact our sales team)

Ordering Model Codes (SKU's)

Models	
PRO-104-80-20	1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x20TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-1-104-80-20	128Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x20TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-2-104-80-20	256Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x20TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
PRO-3-104-80-20	384Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x20TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD
*PRO-4-104-80-20	512Ch-1U 4 bay, (1) Intel Xeon Silver 4410 Scalable Processor, 12Core, 2x480GB M.2 Boss Card on RAID 1 for OS, 32GB RAM, (4)x20TB SATA HDD, (2) 1GbE, (2) 10/25Gb SFP PERC H755 8GB NV Cache RAID Controller, iDRAC 16G, (2) 800W PSU, Windows Server 2022 IoT, 5Yrs Warranty with KYHD

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