HQ Box Series

HQ Box Model Comparison: Distinctive Features

Model	U.2 2.5" SSD (PCIe/SATA)	PCIe Slots & Configuration	Enclosure Type
Bare	0	None	Slim
1F	0	1 slot: 16×	Slim
Storage 2	2	None	Slim
2X	0	2 slots: 8× + 8×	Full
3X	0	3 slots: 8× + 4× + 4×	Full
Combo	2	1 slot: 8×	Full
Storage	4	None	Full

Technical Specifications (All Models)

Feature	Baseline Specification (All Models)
CPU	Intel® Xeon-D1500, 4-16 Core, 35-65W
Memory	128GB Total, 4× DIMM sockets, DDR4-2133/2400 with ECC
Networking	10G Ethernet: 2× SFP+; 1G Ethernet: 2× ports
Internal M.2	2× M.2 SSD NVMe (PCIe 3.0 ×4) + 1× M.2 SSD SATA 3.0
SATA Ports	5× SATA 3.0 7-pin connectors (internal)
USB/Serial	4× USB 3.0; 2× RS-232/485/422 (Optional: 4 ports)
DIO	8-ch Isolated DI + 8-ch Isolated DO
Management	BMC (Aspeed AST2400) with dedicated 1G ETH port and VGA
Security	TPM 2.0 (Infineon SLB 9665)
Cooling	Fanless
Power	13.6 – 24VDC, 5%
Operating Temp	Standard: 0°C to 50°C; Industrial: −30°C to 72°C (on selected configs)