SATYAMEBA System Configuration

Theoretical peak Floating Point Performance Total (RPeak) **Base Specification**

Master/ Service/Log in Nodes

CPU Only Compute Nodes (Extension)

GPU Only Compute Nodes (Extension)

Total Memory

Storage

Interconnect

Master/

Service/Log in **Nodes**

i9-14900K • 32 GB DDR5 •

2 TB NVMe (Samsung) •

RTX 5070 12 GB • 32"

BenQ • ML360 Cooler •

1250 W PSU • Logitech

G515/G502 • Win 11 Pro

i7-14700K • 32 GB DDR5 •

1 TB NVMe • RTX 5070 12

GB • 32" BenQ • Cooler

Master ML360 • 1250 W

Gold PSU • Win 11 Pro •

QHEAL AV (3 Y)

2 Unit

6 Unit

Base Nodes

Xeon W9-3495X (56C/112T) • 256 GB DDR5 ECC • 8 TB

NVMe (2×4 TB) • INWIN 4U

G NIC ×3 • ASUS W790E

Rack • Dual 2000 W PSU • 25

2 Unit

TB NVMe (2×4 TB) • INWIN 4U Rack • Dual 2000 W PSU •

288 TFLOPS 2U * Xeon W9-3495X (56C/112T) • 256 GB DDR5 ECC • 8

25 G NIC ×3 • ASUS W790E

2U * i9-14900K • 32 GB DDR5 • 2 TB NVMe (Samsung) •

RTX 5070 12 GB • 32" BenQ • ML360 Cooler • 1250 W PSU • Logitech G515/G502 • Win 11 Pro • UPS 2000 VA

6U * i7-14700K • 32 GB DDR5 • 1 TB NVMe • RTX 5070 12 GB • 32" BenQ • Cooler Master ML360 • 1250 W Gold PSU Win 11 Pro
QHEAL AV (3 Y)
UPS 2000 VA

7U * Intel Core i5 7th Gen • 8 GB DDR4 • 512 GB NVMe • WiFi • Windows 10/11 Preloaded • Tiny Desktop (Dell)

1U * i7-14700F • B760ME DDR5 (MSI) • 16 GB DDR5 • 1

TB NVMe • RTX 3060 • 20" Acer LED • TVSE Keyboard • HP Mouse • 550 W Cooler Master PSU **1U** * AMD Ryzen 9 7950X (16C/32T, 4.5–5.7 GHz) • Asus ROG Crosshair X670E • 32 GB DDR5 (Corsair 6600 MHz) • 2 TB NVMe WD Black SN770X • RTX 4090 24 GB (Gigabyte) • ML360 Liquid Cooler

32.584 TB

≈ 48.6 TB (including 16 TB NAS Server)

Cisco C9300X 25 G Switch • FortiGate 100F FW • TP-Link

ER8411 VPN • SFP Modules + DAC Cables

1 Unit

PSU

1 Unit

CPU Only Compute

Nodes (Extension)

Intel Core i5 7th Gen • 8 GB

DDR4 • 512 GB NVMe • WiFi •

Windows 10/11 Preloaded • Tiny

7 Unit

Desktop (Dell)

GPU Ready

Nodes(Extension)

i7-14700F • B760ME DDR5

(MSI) • 16 GB DDR5 • 1 TB

LED • TVSE Keyboard • HP

AMD Ryzen 9 7950X

ML360 Liquid Cooler

(16C/32T, 4.5-5.7 GHz) •

Asus ROG Crosshair X670E •

MHz) • 2 TB NVMe WD Black SN770X • RTX 4090 24 GB •

32 GB DDR5 (Corsair 6600

NVMe • RTX 3060 • 20" Acer

Mouse • 550 W Cooler Master