**NCE Server Configuration BOQ:**

**1. Processor: Intel Xeon E5-2698 v4**

Cores/Threads: 20 cores / 40 threads

Base Clock Speed: 2.2 GHz

Max Turbo Frequency: 3.6 GHz

Cache: 50 MB L3

TDP: 135W

Estimated Price: $500 - $700

**2. Motherboard: Supermicro X10DRi-T**

Socket: Dual LGA 2011-3

Chipset: Intel C612

Memory Support: Up to 1TB DDR4 ECC RDIMM/LRDIMM

Expansion Slots: 7 PCI-E 3.0 x8 slots

Networking: Dual 10GBase-T LAN ports

Estimated Price: $300 - $400

**3. Memory: 128GB DDR4 ECC RAM**

Type: DDR4 ECC Registered

Speed: 2133 MHz or 2400 MHz

Configuration: 8 x 16GB modules or 4 x 32GB modules

Estimated Price: $500 - $700

**4. Storage: 1TB SSD**

Type: NVMe or SATA

Form Factor: 2.5-inch (SATA) or M.2 (NVMe)

Estimated Price: $100 - $150

**5. Power Supply: 750W / 1000W**

Type: 80 Plus Gold or Platinum certified

Form Factor: ATX

Estimated Price: $100 - $200

**6. Cooling Fans**

Type: High-performance PWM fans

Size: 80mm or 120mm, depending on case compatibility

Estimated Price: $30 - $50

**7. 2U Rackmount Server Case**

Drive Bays: Support for multiple 3.5-inch or 2.5-inch drives

Cooling Support: Multiple fan mounts for optimal airflow

Estimated Price: $150 - $250

**Total Estimated Cost: $1,680 - $2,450**

**Server Build Summary & Estimated Cost**

| **Component** | **Specification** | **Estimated Price (USD)** |
| --- | --- | --- |
| **Processor** | Intel Xeon E5-2698 v4 (20C/40T, 2.2-3.6GHz, 50MB Cache) | $500 - $700 |
| **Motherboard** | Supermicro X10DRi-T (Dual LGA 2011-3, Intel C612, 10G LAN) | $300 - $400 |
| **Memory** | 128GB DDR4 ECC RAM (2133MHz / 2400MHz) | $500 - $700 |
| **Storage** | 1TB SSD (NVMe or SATA) | $100 - $150 |
| **Power Supply** | 750W / 1000W, 80+ Gold/Platinum | $100 - $200 |
| **Cooling Fans** | High-performance PWM Fans | $30 - $50 |
| **Rackmount Case** | 2U Server Chassis | $150 - $250 |
| **Total Estimated Cost** | **$1,680 - $2,450** |  |