



AMAX B5G Private Network Solutions

Advancing the Future of Connectivity

AMAX's advanced network platforms are designed to support scalable B5G infrastructure while safeguarding mission-critical data. Communications Service Providers (CSPs) are increasingly deploying Private 5G networks for organizations, campuses, and businesses, including large enterprises, educational institutions, and government entities. These networks enable secure communication, data sharing, and collaboration within their environments, ensuring both high performance and scalability.

Baseband Unit & Edge AI Computing



CNEAR-216

Specifications

- Superchip: Nvidia GH200 Grace Hopper superchip, up to 1000W
- Memory: Up to 480GB of LPDDR5X (ECC)
- 4x 2.5"PCIe 4.0 U.2 NVMe SSD (Type 1, Front left side) through BlueField-3 Card, 2x M.2 PCIe 4.0 NVMe
- 2x PCIe 5.0 x16 (FHFL), 1x PCIe 5.0 x16 (FHHL), with BlueField-3 Card
- Security: TPM 2.0
- Power supply: 1+1 2400W Titanium CRPS PSU, rear side



CNEMEC-220I

Specifications

- Processor: 2 x 4th/5th Gen Intel® Xeon® Scalable processors, TDP: 350W/socket
- GPU: 2 x dual-slot GPU cards (up to 300W)
- Memory: 4th Gen Intel® Xeon®: 32 slots, Up to 4800MHz (1DPC), 4400MHz (2DPC) / 5th Gen Intel® Xeon®: 32 slots, Up to 5600MHz (1DPC), 4400MHz (2DPC)
- LAN On board: 1 x RJ-45 dedicated IPMI LAN / 1 x RJ-45 1GbE
- Expansion slots: 2 x PCIe5.0 x16 (FHFL) / 3 x PCIe5.0 x8 (FHHL) / 2 x PCIe5.0 x8 (HHHL) / 1 x OCP 3.0
- Security: TPM 2.0 / PFR 3.0 (Optional)



CNEBB-I

Specifications

- Processor: Intel Ice Lake-D HCC Processor (SoC)
- Memory: 8 x DDR4 DIMM slots, 2DPC, up to 512GB (2933Mhz)
- Built-in 8x 10GbE (SFP+), or 4x 25GbE (SFP28), Built-in 1x 1000BASE-TX RJ-45 port, BMC Management port: Dedicated 1x 1GbE RJ-45 management port
- 1x PCIe 4.0 x16 slot (FHHL), 2x onboard M.2 SSDs (PCIe3.0), 2280 or 22110 slots
- FEC Intel Mount Bryce (eASIC),onboard
- Security: TPM 2.0

Specifications for CNEUS-313I

- Processor: Intel® Xeon® Next-Gen processor (codenamed Sierra Forest)
- GPU: 2x NVIDIA H100
- Memory: 32x DDR5 DIMMs per processor, RDIMM modules up to 96GB supported, 3DS RDIMM modules up to 256GB
- Storage: 2x SlimSAS with 8 x SATA 6Gb/s ports, 2x 7-pin SATA 6Gb/s ports, 1x M.2 (2280/22110), Intel® SATA RAID 0/1/10/5
- Expansion Slots: 3x PCIe Gen5 x16 and x8 FHFL slots
- Networking: Integrated 2x 10Gbase-T
- Power Supply: Redundant 1600W CRPS

Specifications for CNEUS-212I

- Processor: Intel® Xeon® Next-Gen processor (codenamed Sierra Forest)
- GPU: 1x NVIDIA H100
- Memory: 32x DDR5 DIMMs per processor, RDIMM modules up to 96GB supported, 3DS RDIMM modules up to 256GB
- Storage: 2x SlimSAS with 8 x SATA 6Gb/s ports, 2x 7-pin SATA 6Gb/s ports, 1x M.2 (2280/22110), Intel® SATA RAID 0/1/10/5
- Expansion Slots: 2x PCIe Gen5 x16 and x8 slots (2x FHFL)
- Networking: Integrated 2x 10Gbase-T
- Power Supply: Redundant 1600W CRPS



CNEUS-313I / CNEUS-212I

Remote Radio Unit (RRU)



CNESI-FR1

Specifications

- Frequency Band and Channel 8W (by SKU variance)
 - n48 (3.55-3.7 GHz): 10/20/40 MHz
 - n78 (3.3-3.8 GHz): 100 MHz
 - n77 (3.7-4.2 GHz): 100 MHz
 - n79 (4.8-4.9 GHz): 100 MHz
- OBW: 100 MHz, IBW: 100 MHz
- Data Stream: 4T4R MIMO
- Max Output Power: 250 mW (24 dBm) per RF Antenna Port
- Max EIRP: 36 dBm



CNESO-FR1

Specifications

- Frequency Band and Channel BW (by SKU variance)
 - n48 (3.55-3.7 GHz): 10/20/40 MHz
 - n78 (3.3-3.8 GHz): 100 MHz
 - n77 (3.7-4.2 GHz): 700 MHz
 - n79 (4.8-4.9 GHz): 100 MHz
- OBW: 100 MHz, IBW: 100 MHz
- Data Stream: 4T4R MIMO
- Max Output Power: SW (37 dBm) per Channel

Mobile Enclosure



CNEME-2

Specifications

- Radio band supported: FR1: n41, n48, n53, n77, n78, n79
- Modulation: Up to 256QAM (DL), Up to 64QAM (UL)
- MIMO: 4T4R DL: 4 Layers, UL: 4 Layers
- Maximum cells up to 4, Total active users: 512 (128 users/cell)
- Synchronization: LLS-C1 network timing source, supports IEEE 1588 PTPv2 with ITU-T G.8275.1 and SyncE with ITU-T G.8262



CNEME-3

Specifications

- Radio bands supported: FR1: n41, n48, n53, n77, n78, n79
- Modulation: Up to 256QAM (DL), Up to 64QAM (UL)
- MIMO: 4T4R DL: 4 Layers, UL: 4 Layers
- Maximum cells up to 4, Total active users: 512 (128 users/cell)
- Synchronization: LLS-C1 network timing source, supports IEEE 1588 PTPv2 with ITU-T G.8275.1 and SyncE with ITU-T G.8262

x-Haul Transport Switch



CNETS-1B

Specifications

- x-Haul ethernet transport switch for private networks
- Mobile backhaul router
- Carrier access switch
- External interfaces: 12x 1/10/25G 2x 40G/100G Ports
- Redundancy: High availability 1+1 PSU module, and 4+1 fan trays
- Time synchronization: IEEE 1588 v2 PTP (G.8275.1, G.8275.2) / SyncE
- Operating temperatures: -40°C to +65°C
- Dimensions (HxWxD): 44 x 440 x 250 mm



CNETS-2B

Specifications

- x-Haul ethernet transport switch for private networks
- Mobile backhaul router
- Carrier access switch
- External interfaces: 12x 1/10/25G 2x 40G/100G Ports
- Redundancy: High availability 1+1 PSU module, and 4+1 fan trays
- Time synchronization: IEEE 1588 v2 PTP (G.8275.1, G.8275.2) / SyncE
- Operating temperatures: -40°C to +65°C
- Dimensions (HxWxD): 44 x 440 x 250 mm



CNETS-1A

Specifications

- X-Haul transport network switch in mobile networks
- Access and aggregation router in packet transport networks
- Carrier Ethernet switch
- External interfaces: 16 x 1/10/25G 2 x 400G or 4 x 100G or 8 x 25G Ports
- Redundancy: High availability in 1+1 swappable PSU Module, and 2+1 fixed redundant fans
- Time synchronization: IEEE 1588 v2 PTP (G.8275.1, G.8275.2) / SyncE
- Operating temperatures: 0°C to +50°C
- Dimensions (HxWxD): 44 x 440 x 350 mm

