

RUGGED COMPUTERS WITH AMPERE® ALTRA®



Extreme Rugged



MIL-STD 810/461



AA320

Automotive Edge



Level 5 Autonomy



AA640

Railway Vehicles



EN50155/EN50121-4



TEC300

TEC300P

| Model | AA320 | | AA640 | | TEC300 | TEC300P |
|----------------------------|-------------|-------------|-------------|--------------------------|------------------|------------------|
| CPU | 64 Core | 96 Core | 64 Core | 64 Core (Option 128Core) | 32 Core | 64 Core |
| GPU | MXM A2000 | MXM A4500 | A6000 | Tesla T4 | N/A | MXM A4500 |
| RAM | 128GB | 256GB | 256GB | 128GB | 64GB | 64GB |
| NIC-10G (SFP+) /25G QSFP28 | 2x 10G | 2x 10G | 4x 25G | 4x 25G | 2x 10G(Optional) | 2x 10G(Optional) |
| NIC-1G | 2 | 2 | 2 | 2 | 2 | 2 |
| FPD-Link III | N/A | N/A | 8xCH | 8xCH | N/A | N/A |
| CAN | Optional | Optional | 2xCH | 2xCH | N/A | N/A |
| Display | 1 | 1 | 1 | 1 | 1 | 1 |
| Storage -NVMe SSD | 8TB | 16TB | 32TB | 16TB | 8TB | 16TB |
| Storage | 2x U.2 NVMe | 4x U.2 NVMe | 8x U.2 NVMe | 4x U.2 NVMe | 2x U.2 NVMe | 2x U.2 NVMe |
| PSU | DC 18V~36V | DC 18V~36V | DC 18V~36V | DC 18V~36V | DC 33~62V | DC 33~62V |

Please scan the QR code for product information



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AA640



TEC300



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Ampere's Power Efficient Processors Leave x86 Behind

Ampere Cloud Native Processors

Less power is the new power

Ampere® Altra® processors bring **more** to embedded

- **More Cores** 32 to 128 cores
- **More Efficiency** up to 5.5x better than Xeon D
- **More Lanes** 128 PCIe Gen4 lanes

Cloud Native Processors help solve your Size, Weight and Power (SWaP) challenges:

| Processor | Cores | Performance* | Power | Perf/Watt | Perf/\$ |
|-----------------------------|-------|-------------------|-------|-------------------|-------------|
| Intel Xeon D-2776NT | 16 | 85 | 117 W | 0.7 | - |
| Ampere Altra Q32-17 | 32 | 94 / 1.1x | 40 W | 2.4 / 3.2x | 3.1x |
| Ampere Altra Q64-22 | 64 | 201 / 2.4x | 69 W | 2.9 / 4x | 5.4x |
| Ampere Altra M96-28 | 96 | 299 / 3.5x | 128 W | 2.3 / 3.2x | 5.3x |
| Ampere Altra M128-26 | 128 | 333 / 3.9x | 124 W | 2.7 / 3.7x | 4.8x |

About Ampere Computing

Ampere is a modern semiconductor company designing the future of cloud computing with the world's first Cloud Native Processors. Built for the sustainable Cloud with the highest performance and best performance per watt, Ampere processors accelerate all computing applications. Ampere Cloud Native Processors provide industry-leading cloud performance, power efficiency and scalability. For more information, visit [amperecomputing.com](https://www.amperecomputing.com).

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