# Features

- WHITEBOX OPEN™ Platform
- Dual Intel® Xeon® Scalable CPU
- 4x 3.5”/2.5” Hot-Swap HDD Bays
- 16 DIMMs (up to 2TB of memory)
- OCP 1/10/25/40/50/100 GbE ports
- Open BMC Management
- 2x PCIe 3.0 x16

## Specifications

### Format
- 1U Rackmount

### Motherboard
- Tyan S7106GM2NR

### Processor
- Dual Intel® Xeon® Scalable (up to 165W)

### Chipset
- Intel® C621 Chipset

### Memory
- 16 DIMM slots across 12 memory channels (6 memory channels per CPU)
- Up to 512GB RDIMM/1,024GB LRDIMM/768GB LRDIMM 3DS DDR4 2666

### Front Panel
- RST, NMI, Power, UID, 2x USB3.0 ports

### LEDs
- ID, UID, BMC event

### Drivebays
- 4x 3.5”/2.5” HDDs hot swap (ext), 2x 2.5” SSD SATA 6Gb/s (internal fixed 7mm)

### Backplane
- SAS 12Gb/s, SATA 6.0Gb/s

### Expansion Slots
- 2x PCIe 3.0 x16 (from riser cards)

### Riser Card
- LH riser PCIe x16, RH riser PCIe x16

### OCP
- 1x OCP 2.0 x 16 mezzanine slot for LAN
- 1X OCP 2.0 x 16 mezzanine slot for Storage

### System BIOS

- **BIOS Type**: AMI / 32MB
- **BIOS Features**
  - Hardware Monitor
  - SMBIOS 3.0
  - PnP/Wake on LAN
  - Boot from USB device
  - PXE via LAN
  - Storage
  - User Configurable FAN PWM Duty Cycle
  - Console Redirection
  - ACPI sleeping states S4, S5
  - ACPI 6.1

### SATA
- 2x Mini-SAS HD (8-ports)
  - C621 chipset 6Gb/s RAID 0/1/10/5

### sSATA
- 2x SATA-iii, 1x Mini-SAS HD (4-ports)
  - C621 chipset 6Gb/s RAID 0/1/10/5

### NVMem
- 2x M.2 connectors by PCIe interface

### IPMI
- Onboard Aspeed AST2500 BMC Chipset
  - 10/100/1000 Mb/s MAC interface
  - IPMI 2.0 compliant baseboard management controller (BMC)
  - Supports storage over IP and remote platform-flash
  - USB 2.0 virtual hub

### Network Controllers
- 2x 1GbE
  - 1x 1GbE dedicated for IPMI
  - Intel I210-AT

### Graphics
- Aspeed AST2500
  - up to 1920x1200
  - D-sub 15-pin connector

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**Contact Information:**

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### Rear I/O

<table>
<thead>
<tr>
<th></th>
<th>Rear I/O</th>
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</thead>
<tbody>
<tr>
<td>LAN</td>
<td>2x RJ-45 1GbE</td>
</tr>
<tr>
<td></td>
<td>1x GbE dedicated for IPMI</td>
</tr>
<tr>
<td>USB</td>
<td>2x USB3.0 at rear (2x also at front)</td>
</tr>
<tr>
<td>VGA</td>
<td>1x D-SUB VGA</td>
</tr>
<tr>
<td>Serial Port</td>
<td>1x DB-9 COM port</td>
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### Power Supply

- RPSU 650W hot swap

### System Cooling

- 6x 4cm fans

### System Management

- AST2500
- 10/100/1000 Mb/s MAC interface
- IPMI 2.0 compliant baseboard management controller (BMC)
- Supports storage over IP and remote platform-flash
- USB 2.0 virtual hub
- Temp (CPU, memory, system)
- Voltage (CPU, memory, chipset, PS)
- LED: Over Temp warning, Fan/PSU fail watchdog timer support

### Environmental Specifications

- 10° C ~ 35° C (50° F ~ 95° F)

### Gross Weight

- 21 kg (46.5 lbs)

### Dimensions

- Chassis - 25.4" x 17.2" x 1.72"

### Mounting

- Tool-free Rail Kit

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