## Features
- WHITEBOX OPEN™ Platform
- Dual Intel® Xeon® Scalable CPU
- 28x 3.5” Hot-Swap HDD Bays
- 16 DIMMs (up to 2TB of memory)
- OCP 1/10/25/40/50/100 GbE ports
- Open BMC Management

## Specifications

<table>
<thead>
<tr>
<th>Format</th>
<th>2U Rackmount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motherboard</td>
<td>Tyan S7106GM2NR</td>
</tr>
<tr>
<td>Processor</td>
<td>Dual Intel® Xeon® Scalable (up to 205W with FRU-SO-9140)</td>
</tr>
<tr>
<td>Chipset</td>
<td>Intel® C621 Chipset</td>
</tr>
</tbody>
</table>
| Memory | 6 memory channels per CPU  
Up to 1,024GB total memory  
16 DDR4 ECC registered DIMM slots |
| Front Panel | Power, RST, UID buttons, 1x USB3.0 port |
| LEDs | PWR, HDD, LAN, Warning, UID |
| Drivebays | 28x 3.5” HDD + 4x2.5” 7mm or 2x2.5” 15mm internal drive bays |
| Backplane | SAS 12Gb/s, 12Gb passive + 4x NVMe, 12Gb passive |
| Expansion Slots | 2x PCIe x16 used by storage controllers |
| OCP | 2x OCP 2.0 x16 (LAN+Storage)  
Opt: 2x Oculink 8x connectors for 4x NVMe ports |

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

## On-board Devices
- 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
- NVMe 1x M.2 slot, up to 4 internal 2.5” 7mm
- 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
- Graphics Aspeed AST2500  
  up to 1920x1200  
  D-sub 15-pin connector
### Rear I/O

<table>
<thead>
<tr>
<th></th>
<th>LAN</th>
<th>2x RJ-45 1Gbe</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1x Gbe dedicated for IPMI</td>
</tr>
<tr>
<td></td>
<td>USB</td>
<td>2x USB3.0 at rear</td>
</tr>
<tr>
<td></td>
<td>VGA</td>
<td>1x D-SUB VGA</td>
</tr>
<tr>
<td></td>
<td>Serial Port</td>
<td>1x DB-9</td>
</tr>
</tbody>
</table>

### Power Supply
- 850 Watt redundant power supplies

### System Cooling
- 4x 60mm and 2x 40mm fans

### System Management
- 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

<table>
<thead>
<tr>
<th>Environmental Specifications</th>
<th>10° C ~ 35° C (50° F~ 95° F)</th>
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</thead>
</table>

### Gross Weight
- 24 kg (53 lbs)

### Dimensions

### Mounting
- Tool-free Rail Kit