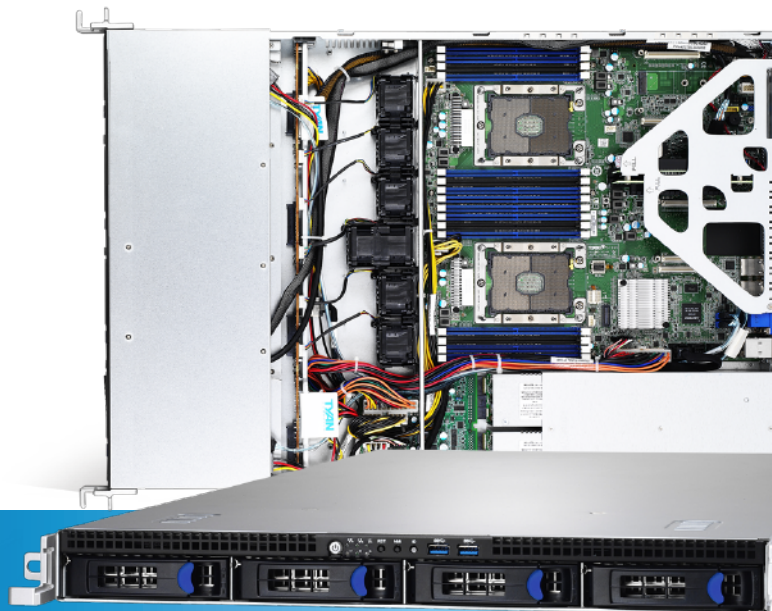


## 1U2S SERVER PLATFORM



## Thunder CX GT24E-B7106

B7106G24EV4HR / B7106G24EV2E2HR



### Front View



- (4) 3.5"/2.5" Hot-Swap SSD/HDDs devices



- (2) 3.5"/2.5" Hot-Swap SSD/HDDs + (2) NVMe devices

### Back View



- (1+1) 650W RPSU, 80 PLUS Platinum

### 1U2S server platform designed for data center deployment

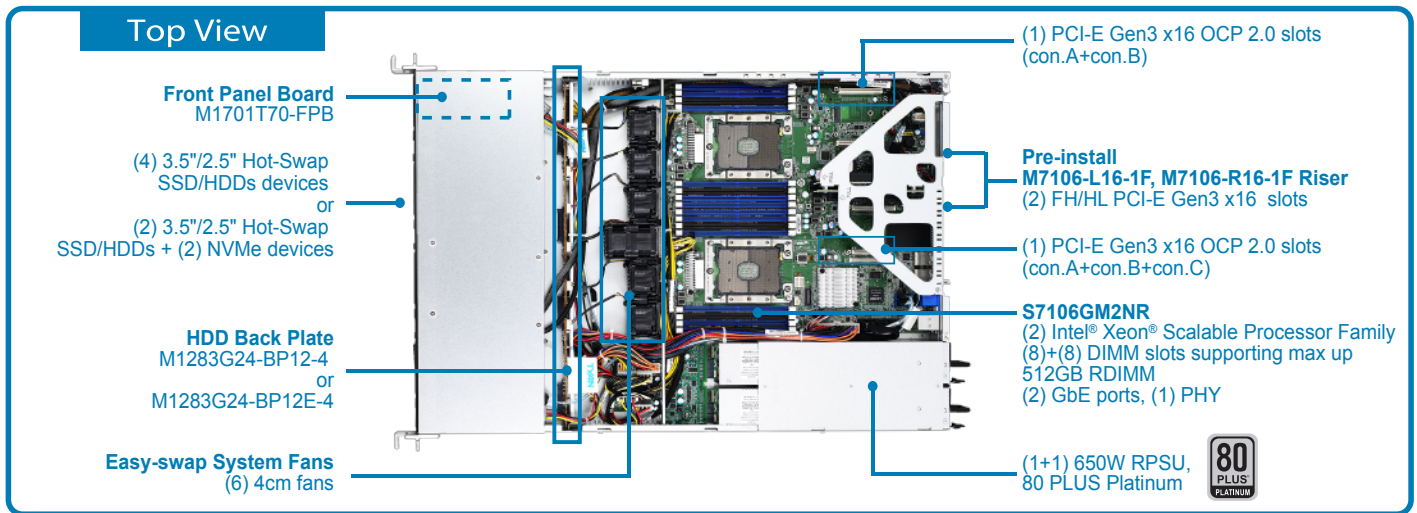
- Max up to (4) 3.5"/2.5" Hot-Swap SSD/HDDs devices or (2) 3.5"/2.5" Hot-Swap SSD/HDDs + (2) NVMe devices
- Dual LGA3647 socket supports (2) Intel® Xeon® Scalable Processor Family
- (8+8) DIMM slots DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666 Supporting up to Up to 512GB RDIMM/ 1,024GB LRDIMM/ 2,048GB LRDIMM 3DS
- \*Follow latest Intel DDR4 Memory POR
- Max up to (2) PCI-E Gen3 x16 slots
  - (1) PCI-E Gen3 x16 OCP 2.0 slots (con.A+con.B)
  - (1) PCI-E Gen3 x16 OCP 2.0 slots (con.A+con.B+con.C)
- (2) GbE ports + (1) PHY port (via Intel® I210-AT + via Realtek® RTL8211E)
- Onboard BMC w/ IPMI and iKVM support
- (1+1) 650W RPSU, 80 PLUS Platinum

# Thunder CX GT24E-B7106

B7106G24EV4HR / B7106G24EV2E2HR

# TYAN

## Specifications



|                              |                                    |                                                                                                        |
|------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------|
| System                       | Form Factor                        | 1U Rackmount                                                                                           |
|                              | Chassis Name                       | GT24E                                                                                                  |
|                              | Dimension (D x W x H)              | 25.4" x 17.2" x 1.72" (645 x 436 x 43.6mm)                                                             |
|                              | Motherboard                        | S7106GM2NR                                                                                             |
|                              | Gross Weight                       | 21 kg (46.5 lbs)                                                                                       |
| Front Panel                  | Buttons                            | (1) RST, (1) PWR w/ LED, (1) UID                                                                       |
|                              | LEDs                               | (1) ID, (1) UID, (1) BMC event                                                                         |
| External Drive Bay           | I/O Ports                          | (2) USB 2.0 ports                                                                                      |
|                              | Type / Qty                         | 3.5"/2.5" Hot-Swap SSD/HDDs/ (4) or 3.5"/2.5" Hot-Swap SSD/HDD + NVMe/ (2) + (2)                       |
|                              | HDD backplane support              | SAS 12Gb/s, SATA 6Gb/s or SAS 12Gb/s, SATA 6Gb/s, NVMe                                                 |
| System Cooling Configuration | Supported HDD Interface            | (4) SATA 6Gb/s or (2) SATA 6Gb/s + (2) NVMe                                                            |
|                              | FAN                                | (6) 4cm fans                                                                                           |
| Power Supply                 | Type                               | RPSU                                                                                                   |
|                              | Input Range                        | AC 100-240V/8A                                                                                         |
|                              | Efficiency                         | 80-PLUS Platinum                                                                                       |
|                              | Output Watts                       | 650 Watts                                                                                              |
| Processor                    | Redundancy                         | 1+1                                                                                                    |
|                              | Supported CPU Series               | (2) Intel® Xeon® Scalable Processor Family                                                             |
|                              | Thermal Design Power (TDP) wattage | Max up to 165W                                                                                         |
| Chipset                      | Chipset                            | Intel® C621                                                                                            |
|                              | Super I/O                          | -                                                                                                      |
| Memory                       | Supported DIMM Qty                 | (8)+(8) DIMM slots                                                                                     |
|                              | DIMM Type / Speed                  | DDR4 RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 2666                                                            |
|                              | Capacity                           | Up to 512GB RDIMM/ 1,024GB LRDIMM/ 2,048GB LRDIMM 3DS *Follow latest Intel® DDR4 Memory POR            |
|                              | Memory channel                     | 6 Channels                                                                                             |
|                              | Memory voltage                     | 1.2V                                                                                                   |
| Expansion Slots              | PCI-E                              | (2) PCI-E Gen3 x16 slots                                                                               |
|                              | Pre-install TYAN Riser Card        | M7106-L16-1F, M7106-R16-1F                                                                             |
|                              | Pre-install TYAN OCP Riser Card    | -                                                                                                      |
|                              | Others                             | (1) PCI-E Gen3 x16 OCP 2.0 slots (con.A+con.B)<br>(1) PCI-E Gen3 x16 OCP 2.0 slots (con.A+con.B+con.C) |
| LAN                          | Port Qty                           | (2) GbE ports, (1) PHY                                                                                 |
|                              | Controller                         | Intel® I210-AT                                                                                         |
|                              | PHY Controller                     | Realtek® RTL8211E                                                                                      |

|                       |                             |                                                                                                                                                                                         |                                         |
|-----------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Storage               | SATA                        | Connector                                                                                                                                                                               | (2) Mini-SAS HD (8-ports)               |
|                       |                             | Controller                                                                                                                                                                              | Intel® C621                             |
|                       |                             | Speed                                                                                                                                                                                   | 6.0 Gb/s                                |
|                       |                             | RAID                                                                                                                                                                                    | RAID 0/1/10/5 (Intel RSTe)              |
| Graphic               | sSATA                       | Connector                                                                                                                                                                               | (2) SATA-III, (1) Mini-SAS HD (4-ports) |
|                       |                             | Controller                                                                                                                                                                              | Intel® C621                             |
|                       |                             | Speed                                                                                                                                                                                   | 6.0 Gb/s                                |
|                       |                             | RAID                                                                                                                                                                                    | RAID 0/1/10/5 (Intel® RST)              |
| Input /Output         | M.2 connector               | (1) M.2 connector (2242/2260/2280) by PCI-E interface                                                                                                                                   |                                         |
|                       | Connector type              | D-Sub 15-pin                                                                                                                                                                            |                                         |
|                       | Resolution                  | Up to 1920x1200                                                                                                                                                                         |                                         |
| System Monitoring     | Chipset                     | Aspeed AST2500                                                                                                                                                                          |                                         |
|                       | USB                         | (2) USB3.0 ports (2 at rear), (2) USB3.0 ports (2 at front)                                                                                                                             |                                         |
|                       | COM                         | (1) DB-9 port                                                                                                                                                                           |                                         |
|                       | VGA                         | (1) D-Sub 15-pin                                                                                                                                                                        |                                         |
| Server Management     | RJ-45                       | (2) GbE ports, (1) PHY dedicated for IPMI                                                                                                                                               |                                         |
|                       | TPM (Optional)              | TPM Support                                                                                                                                                                             | Please refer to our TPM supported list. |
|                       | Chipset                     | Onboard Aspeed AST2500                                                                                                                                                                  |                                         |
| BIOS                  | Voltage                     | Monitors voltage for CPU, memory, chipset & power supply                                                                                                                                |                                         |
|                       | Temperature                 | Monitors temperature for CPU & memory & system environment                                                                                                                              |                                         |
|                       | LED (On system front panel) | Over temperature warning indicator, Fan & PSU fail LED indicator                                                                                                                        |                                         |
| Operating System      | Others                      | Watchdog timer support                                                                                                                                                                  |                                         |
|                       | Onboard Chipset             | Onboard Aspeed AST2500                                                                                                                                                                  |                                         |
|                       | AST2500 iKVM Feature        | IPMI 2.0 compliant baseboard management controller (BMC), Supports storage over IP and remote platform-flash, USB 2.0 virtual hub                                                       |                                         |
| Regulation            | AST2500 IPMI Feature        | 24-bit high quality video compression, 10/100/1000 Mb/s MAC interface                                                                                                                   |                                         |
|                       | Brand / ROM size            | AMI / 32MB                                                                                                                                                                              |                                         |
| Operating Environment | Feature                     | 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 |                                         |
|                       | OS supported list           | Please refer to our AVL support lists                                                                                                                                                   |                                         |
|                       | FCC (DoC)                   | Class A                                                                                                                                                                                 |                                         |
| RoHS                  | CE (DoC)                    | Yes                                                                                                                                                                                     |                                         |
|                       | Operating Temp.             | 10° C ~ 35° C (50° F~ 95° F)                                                                                                                                                            |                                         |
| RoHS                  | Non-operating Temp.         | - 40° C ~ 70° C (-40° F ~ 158° F)                                                                                                                                                       |                                         |
|                       | In/Non-operating Humidity   | 90%, non-condensing at 35° C                                                                                                                                                            |                                         |
| RoHS                  | RoHS 6/6 Compliant          | Yes                                                                                                                                                                                     |                                         |

(Specifications are subject to change without notice. Items pictured may only be representative.)

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