TYAN

Cost-Effective HPC Platform

Transport GT20

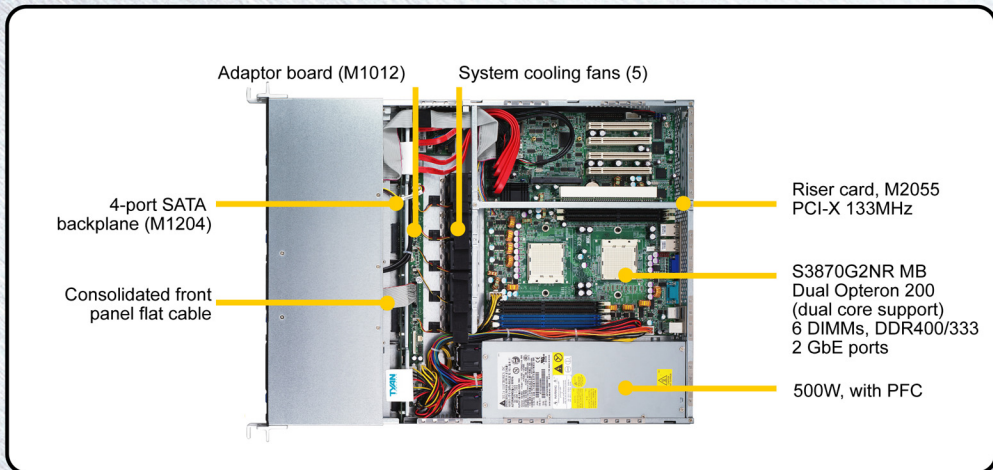**B3870G20S4H**

AMD 64 Opteron

High Performance, High Density Server Platform with Dual AMD Opteron™

Front view

Back view

- Support up to 2 AMD Opteron™ 200 processors (dual core ready)
- Broadcom BCM5785 (Serverworks HT-1000) core-logic
- Six (6) DIMMs, supporting max. 12/24GB registered, ECC DDR400/333
- 2*GbE (Intel® 82541PI GbE controllers)
- One (1) 133MHz PCI-X slot on riser card
- Support four (4) hot-swappable SATA HDD bays, with HostRAID 0, 1, 10
- Pre-installed one (1) slim CD-ROM drive, 24x
- Optional one (1) slim FDD
- TYAN GT20, with Delta 500W power supply

Transport GT20

B3870G20S4H

Adaptor board (M1012)

System cooling fans (5)

4-port SATA backplane (M1204)

Consolidated front panel flat cable

Riser card, M2055 PCI-X 133MHz

S3870G2NR MB Dual Opteron 200 (dual core support) 6 DIMMs, DDR400/333 2 GbE ports

500W, with PFC

S P E C I F I C A T I O N S

Enclosure
· Industry 19" rack-mountable 1U chassis
  Storage bay
  - (4) 3.5" HDD bays
  - (1) slim line CD-ROM bay
  - (1) slim line FDD bay
  Dimension
  - D 22.4 x W 17.2 x H 1.72 inch
    (568x436x43.6mm)

Processors
· Dual PGA 940-pin ZIF sockets
· Supports one or two AMD OpteronTM 200 series processors (including dual core processors)

Chipset
· ServerWorks BCM5785 (HT-1000) core-logic
· NS PC87417 Super I/O
· (2) SMSC EMC6D103 hardware monitoring IC

Memory
· Total (6) DIMM sockets
  - (4) from CPU0 and (2) from CPU1
· Supports PC2100, PC2700 & PC3200 DDR
· Registered, ECC/Non-ECC module supported
· Single/Dual/Quad-Rank memory supported

Expansion Slots
· (1) 64-bit 100/133MHz PCI-X slot on riser card (Riser card model: M2055)
· One Tyan "TARO" SO-DIMM socket

Back I/O Ports
· Stacked PS/2 Mouse & Keyboard ports
· Stacked 2 USB 2.0 ports

· (1) 9-pin UART Serial port
· (1) 15-pin VGA port
· (2) RJ45 connectors

Front Panel Features
· I/O
  - (2) USB 2.0 ports
· LED indicators
  - Power LED   - (2) LAN LEDs
  - HDD active LEDs   - ID LED
  - System warning LED
· Switches
  - Power   - Reset
  - NMI   - ID

Integrated Storage Controller(BCM5785)
· MCM5785 embedded 4-port SATA at 1.5Gb/s with NCQ

Storage
· Pre-installed slim type 24x CD-ROM
· Support (4) hot-swappable SATA HDDs with RAID 0, 1, 10

Networking
· (2) GbE ports
  - Two Intel i82541PI GbE LAN controllers
  - With ASF 2.0/WfM/Teaming support

Video
  XGI Volari Z7 (XG20)
  16MB frame buffer memory

Motherboard
· TYAN Tiger K8SSA S3870G2NR system board
· ATX footprint (10.2" x 12")

BIOS
· AMI BIOS on 8Mbit LPC Flash ROM
· Serial Console Redirect
· Supports APM1.2 and ACPI
· PnP, DMI2.0, WfM2.0 power Management

Server Management
· System fan speed control and monitoring
· Chassis intrusion alert
· Support Tyan Server Management(TSM)
· TYAN SMDC, IMPI 2.0 compliant remote server management kit (Optional)

System Cooling
· (5) 40*40*28mm 15000rpm heavy-duty fans
· (1) passive CPU heatsink for 2PCs CPU

Power Supply
· EPS 12V, 1U, 500W with PFC
· 100V~240V AC input

Regulatory
· FCC Class B (Declaration of Conformity)
· CE   · VCCI   · C-Tick

Environment Temperature
· Operating temperature 5°C ~ 35°C
· Non-operating temperature -40°C ~ 70°C

Product SKU

Model #	HDD type supported	No. of HDD supported	System Board
B387G20S4H	Hot-swappable (4)	4-port SATA	S3870G2NR

TYAN COMPUTER CORP.