TST 1U Blade B102PT For Intel S3000PT HPC board

TST

Build Unique Storage Solutions with a Technology Edge

The TST B102PT blade enclosure is designed for applications requiring high density with a lower cost, lower power consumption, and lower complexity as an all-in-one self-contained unit. It is perfect as an alternative solution for HPC, rendering,search engine nodes and streaming applications, as well as, distributed server for web and application hosting. Unlike other 1U Twin system that if one node failed, and needed to turn off the system for maintenance, B102PT offer hot swap function that allow high-availability applications, save maintenance / management costs. This solution is fully compatible and optimally designed for thermals required by Intel's Dual/Quad core Xeon 3000 series, Core 2 Duo, and Core 2 Quadro products.
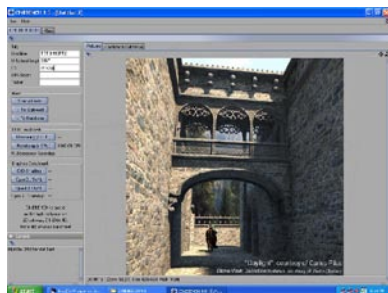

Features and Benefits

Supports Intel S3000PT server boards

Support One 3.5" or Two 2.5" HDD per blade

Total 10 system per each 4U chassis

Included fixed mounting slide rail

Cinebench 1348CB-CPi with Core 2 Quadro

Chassis Specification

1. EIA 310-D standard 1U chassis
2. Dimension 19"Wx7"Hx28"D
3. Corrosion-resistant Aluminum Alloy construction
4. Includes 2 Swappable blade carriers
5. Support Intel S3000PT Board
6. PWM system fan control
7. Front Panel includes:

    <u>Buttons and Switches:</u> Power on/off (momentary) button
    <u>LEDs:</u>   Power, Hard-Disk activity
    <u>Connectors:</u>   Two USB ports, One serial port
                                    One video port, Two NIC
8. Support 1 x 3.5" internal hard-disk drive
9. 275W high efficiency 80+ power supply

RoHS   80 PLUS   energy ENERGY STAR   SERIAL ATA 3Gb/s   intel Core 2 Extreme inside

Saving using TST blade Server, B102PT than other standard 1U chassis

The B102PT is highly energy-efficient and environmentally friendly. Its pure power efficiency improves system reliability and will reduce TCO dramatically.

Power Saving and Greenhouse gas reduction if using TST B102PT		
System Power Comsumption (Watt) *	120	120
	70% efficient Vendor	84% efficeint TST
Actual Watt/unit (Watt)	156	139.2
Watt lose to heat	36	19.2
1000 server (KW)	36	19.2
24hour operation (KW)	864	460.8
yearly operation (KW)	315360	168192
Yearly saving (KW)	0	147168
Yearly saving on cooling/HVAC** (KW)	0	147168
Total Saving (KW)	0	294336
Total Saving in Dollar ***	0	$52,039
lbs of CO2 save (pound)****	0	222812.4
your total greenhouse reduction (metric Tons)	0	101.3
This is equivalent to one of the following ******		**saved with TST**
Passengers car not driven for one year	0	22
Gallons of gasoline	0	11511
Barrels of oil	0	235
Acres of pine storing carbon for one year	0	84
Acres of forest preserved form deforestation	0	0.83
Propane cyliners used for home barbeques	0	4211
Tons of waste recycled instead of landfilled	0	34
*Assume the Port townsend board with 8Gb Memory, a 65W Core2 Dual CPU, a 3.5" HDD and 3 cooling fans consume 120W of power		
**Assume 1KW of heat generate need 1KW of to cooling power to cool down		
***Energy cost savings are based national average of 17.68 cents per kWh for the commercial sector, SEC		
****Environmental Savings use U.S. average of 1.514 lbs Carbon Dioxide per kWh delivered.		
*****CO2 equivalencies based on data from the U.S. Climate Technology Cooperation Gateway.www.usctcgateway.net/tool/index.cfm		

Additional product savings come in the form of rebates from the following National 80PLUS™ program

qualified utility companies

Space Saving for 1000 server		
	Other Vendor	TST
Number of server can put into a 42U cabinet	42.00	84.00
Number of Cabinet needed for 1000 server	23.81	11.90
Number of Cabinet saved	0.00	11.90
Total Cost (Dollar)*	$28,571.43	$14,285.71
Total Saving in Dollar Cabinet	0	$14,285.71
Yearly saving on renting space**	0	$11,428.57
* Assume each cabinet cost is $1200		
** Assume each cabinet space renting cost is $80 per month per cabinet		