SANS DIGITAL | TOWERRAID **TR4UTBPN**

QUICK INSTALLATION GUIDE v1.0

Package Contents

Item	Quantity
TR4UTBPN	1
Power Cord	1
USB 3.0 Cable	1
eSATA Cable	1
Screws	1 set
Quick Installation Guide	1
CD Manual	1

Please contact Sans Digital in case of any missing or damaged items.

QUICK INSTALLATION GUIDE
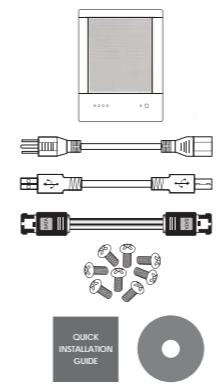
LED Indicators
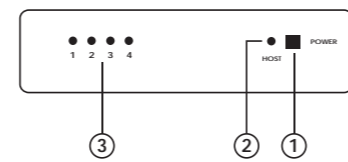
1. **Power LED** - Lights when unit is powered on.
2. **PC Link LED** - Lights when unit is connected to computer.
3. **HDD LEDs** - Green: HDD is installed.
   Blinking green: HDD is being accessed.
   Red: Error.
   Flashing red: Rebuilding.

NOTE: Port multiplier is required for detecting all 4 drives under clean mode. If the computer does not have port multiplier, only drive #1 will be detected. Optional port multiplier card is available. Please visit www.sansdigital.com.

Hard Drive Installation

1. Remove the tool-less screws on the back panel.
2. Remove the upper chassis cover backwards and lift it upwards.
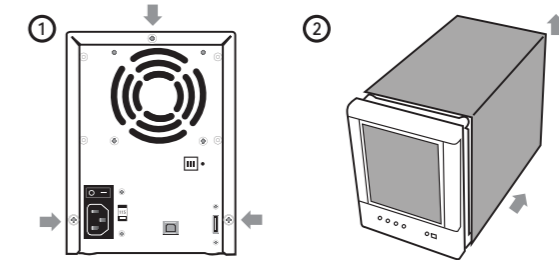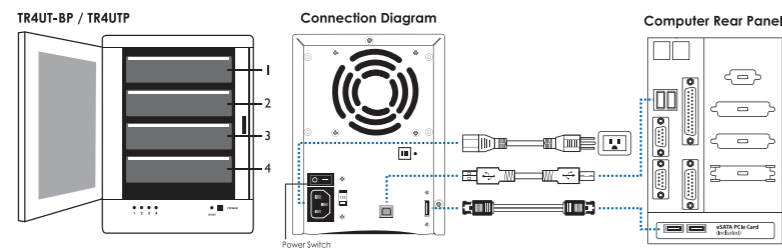
3. Open the front panel and install the HDDs from the top to the bottom.
4. Fasten the tool-less screws to secure the hard drives.
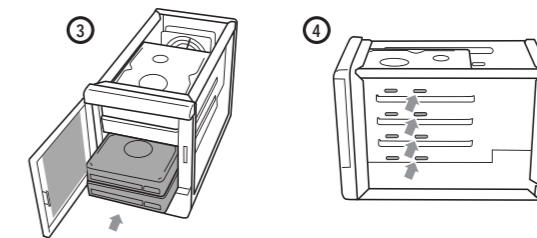
5. Close the front panel and the chassis cover, and fasten the tool-less screws on the back panel.

Hardware Connection Diagram

TR4UT-BP / TR4UTP   Connection Diagram   Computer Rear Panel

• Power ON/OFF: Switch the power button located in the back to power on/off.

RAID Setup

1. Select the desired RAID mode by setting the RAID switch on the back of the unit.
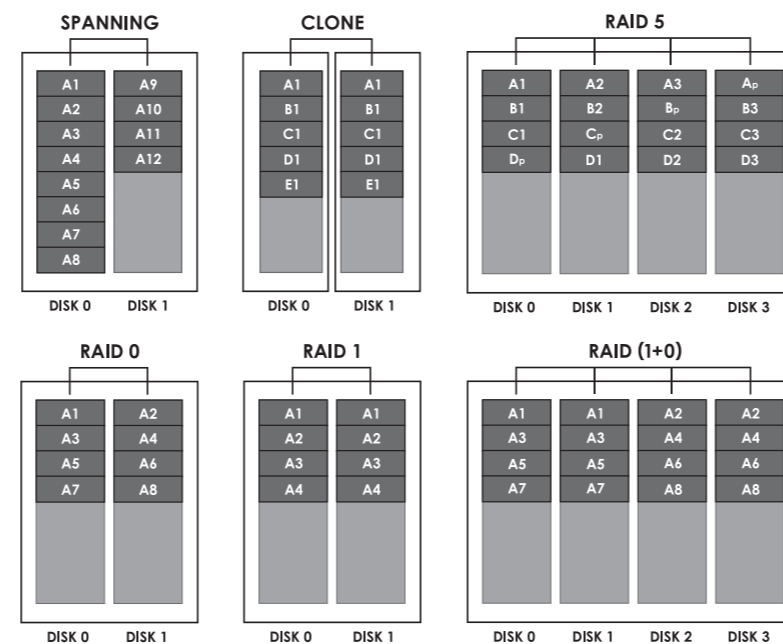
CLEAN	LARGE	CLONE	R0	R1/10	R3	R5
1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3	1 2 3
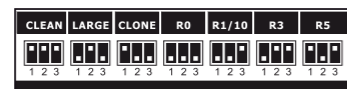
2. Turn on the 'Power' switch while holding down the 'Reset' switch for 5 secs to complete RAID setup.

Power switch   Reset switch

NOTE: All hard drive data will be erased during RAID setup.
NOTE: Hot-spare is supported for RAID 1, 1+0, 5, and Clone. Please see Detailed User's Manual for further instructions.

Optional RAID Monitoring Utility

The unit is embedded with hardware RAID, where no additional software is required. Optional RAID monitoring utility is available for additional features such as email notification and firmware update. Please refer to the CD manual for details on RAID and advanced features.

SPANNING

A1	A9
A2	A10
A3	A11
A4	A12
A5	
A6	
A7	
A8	

DISK 0 / DISK 1

CLONE

A1	A1
B1	B1
C1	C1
D1	D1
E1	E1

DISK 0 / DISK 1

RAID 5

A1	A2	A3	A$_P$
B1	B2	B$_P$	B3
C1	C$_P$	C2	C3
D$_P$	D1	D2	D3

DISK 0 / DISK 1 / DISK 2 / DISK 3

RAID 0

A1	A2
A3	A4
A5	A6
A7	A8

DISK 0 / DISK 1

RAID 1

A1	A1
A2	A2
A3	A3
A4	A4

DISK 0 / DISK 1

RAID (1+0)

A1	A1	A2	A2
A3	A3	A4	A4
A5	A5	A6	A6
A7	A7	A8	A8

DISK 0 / DISK 1 / DISK 2 / DISK 3

Other Sans Digital Products

HDDRACK5

• 5-Bay IDE / SATA Hard Drive Organizing Rack
• Designed with a 4.7" cooling fan and a hollow aluminum frame for efficient heat dissipation.
• Designed with an ON/OFF power switch, which controls the power of hard drives, when a 20-pin or 24-pin ATX power supply is connected.
• Expandable to 10-bay by stacking an additional unit on top and securing it with a tool-less screw.

MS2UT+ / MS2UT+B

• 2-Bay External RAID Enclosure
• Tray-less enclosure supporting RAID 0, RAID 1, JBOD and Spanning.
• Cable-less backplane design, supporting SATA I and SATA II HDDs.
• Easy access RAID mode switch on back panel.
• eSATA and USB 2.0 host interface.
• Ventilating protective front panel.
• Supports Windows, MAC and Linux.

TR4X-B / TR4X

• 4-Bay External RAID Enclosure
• Access 4 hard drives while using only one cable.
• Supports SAS interface connection.
• Cable-less backplane design, supporting SATA I and SATA II HDDs.
• Supports Windows, Linux, and MAC OS X.
• Cable-less, tray-free design with dust cover.
• Available in black and silver finish.

TR8M-BP / TR8MP

• 8-Bay External RAID Enclosure
• Two eSATA cables supporting up to 8 hard drives using Port Multiplier.
• Creates RAID 0, 1, 1+0 and 5 with spare supported via software utilities.
• Cable-less backplane design, supporting SATA I and SATA II HDDs.
• Bundled with 2-Port 6G eSATA PCIe 2.0 x1.
• Supports Windows, MAC and Linux.

T: 1.800.980.1988 F: 1.626.322.3878 E: INFO@SANSDIGITAL.COM W: WWW.SANSDIGITAL.COM