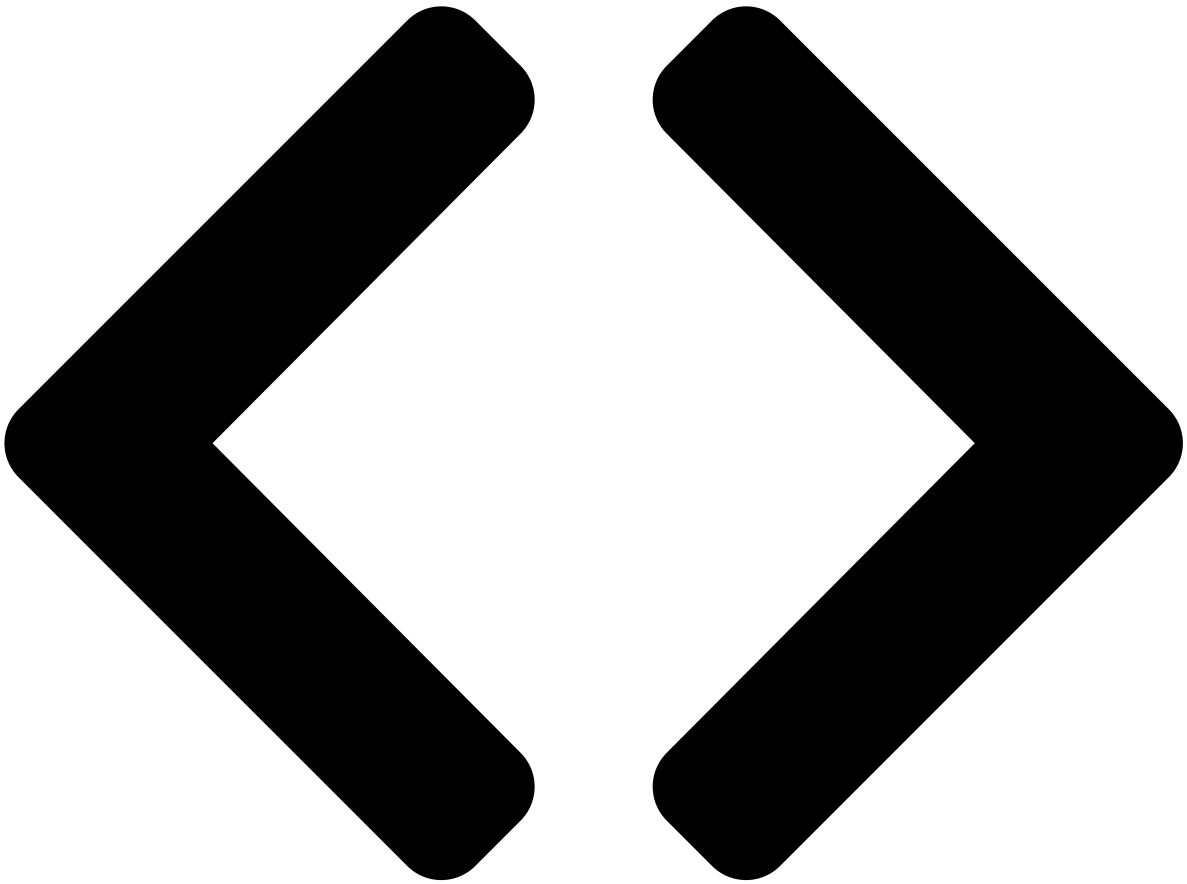
Raid Configurations - Asus PRIME H770-PLUS D4 Manual

1
2
Table Of Contents
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

-

Table of Contents

Bookmarks



2.5

RAID configurations

The motherboard comes with the Intel
RAID 1, RAID 5 and RAID 10 configuration.
For more information on configuring your RAID sets, please refer to the RAID Configuration Guide which you can find at https://www.asus.com/support, or by scanning the QR code.

RAID definitions

RAID 0 (Data striping) optimizes two identical hard disk drives to read and write data in parallel, interleaved stacks. Two hard disks perform the same work as a single drive but at a

sustained data transfer rate, double that of a single disk alone, thus improving data access
and storage. Use of two new identical hard disk drives is required for this setup.
RAID 1 (Data mirroring) copies and maintains an identical image of data from one drive to
a second drive. If one drive fails, the disk array management software directs all applications
to the surviving drive as it contains a complete copy of the data in the other drive. This RAID
configuration provides data protection and increases fault tolerance to the entire system. Use
two new drives or use an existing drive and a new drive for this setup. The new drive must be
of the same size or larger than the existing drive.
RAID 5 stripes both data and parity information across three or more hard disk drives. Among
the advantages of RAID 5 configuration include better HDD performance, fault tolerance, and
higher storage capacity. The RAID 5 configuration is best suited for transaction processing,
relational database applications, enterprise resource planning, and other business systems.
Use a minimum of three identical hard disk drives for this setup.
RAID 10 is data striping and data mirroring combined without parity (redundancy data) having
to be calculated and written. With the RAID 10 configuration you get all the benefits of both
RAID 0 and RAID 1 configurations. Use four new hard disk drives or use an existing drive
and three new drives for this setup.
PRIME H770-PLUS D4
Rapid Storage Technology that supports RAID 0,
®

Table of Contents

Previous Page
Next Page

Quick Links:

Prime H770-Plus D4 Specifications Summary
Motherboard Overview
Installation

Related Manuals for Asus PRIME H770-PLUS D4

Motherboard Asus PRIME H770-PLUS D4 Quick Start Manual

(2 pages)

Motherboard Asus TUF GAMING H770-PRO WIFI Manual

(46 pages)

Motherboard Asus TUF GAMING H770-PRO WIFI Quick Start Manual

(2 pages)

Motherboard Asus TUF GAMING H770-PRO WIFI Quick Start Manual

(2 pages)
Motherboard ASUS H97-PRO GAMER User Manual
(86 pages)
Motherboard Asus H97M-PLUS Manual
(20 pages)
Motherboard Asus h170-pro Manual
(92 pages)
Motherboard Asus H110M-K Instruction Manual
(25 pages)
Motherboard Asus H110M-E D3 Instruction Manual
(55 pages)
Motherboard Asus H81M-CT Manual
(63 pages)
Motherboard Asus Prime H510M User Manual
(34 pages)
Motherboard Asus PRIME H310M-E R2.0 Manual
(28 pages)
Motherboard Asus PRIME H410M-K Manual
(28 pages)
Motherboard Asus H110M-E/M.2 Manual
(26 pages)
Motherboard Asus H110M-C/HDMI Manual
(27 pages)
Motherboard Asus H110M-K X Manual
(27 pages)

Related Content for Asus PRIME H770-PLUS D4

PRIME X299-A Series Raid Configurations
Asus PRIME X299-A Series
A620M-AYW WIFI Raid Configurations
Asus A620M-AYW WIFI
ROG RAMPAGE V EDITION 10 Raid Configurations
Asus ROG RAMPAGE V EDITION 10
WS X299 SAGE Raid Configurations
Asus WS X299 SAGE
PRIME A520M-R Raid Configurations
Asus PRIME A520M-R
Pro A620M-C-CSM Raid Configurations
Asus Pro A620M-C-CSM
TUF GAMING B650-E WIFI Raid Configurations
Asus TUF GAMING B650-E WIFI
PRIME B650M-R Raid Configurations
Asus PRIME B650M-R