Storage: media and host interfaces

22 October 2026 / Revision 2 / AI-assisted source reference; no independent review or hardware validation

Keep the connector, medium, interface and exact host support separate. Shared dimensions or a matching key do not establish interchangeability.

SATA data / power	The seven-contact data form and separate fifteen-position power form serve different roles. Trace both documented paths. [S032, S200]
M.2 key / interface	Mechanical key and format do not prove the host supports the device SATA, PCIe or NVMe interface. [S033, S427]
PCIe slot / lanes	A documented x16-length slot can have board-specific electrical lane and sharing conditions. Do not transfer one board example to every host. [S281, S429]
CFexpress Type A / B / XQD	Read the full media designation and exact camera/reader support. Similar envelope or connector-family evidence does not guarantee cross-standard support. [S096, S097]
Exact drive / adapter	The cited USB3S2SAT3CB adapter excludes 3.5-inch hard drives. A SATA-shaped endpoint is not evidence of suitable drive power. [S492]

CHECK THE COMPLETE TASK

1. Record full drive/card model, medium standard and host/reader model. Keep firmware and intended recording/workload conditions with the support statement.

2. Read the exact host slot/key/interface and lane-sharing notes; account for installed devices.

3. Match the power arrangement and adapter scope to the drive. Do not borrow a data cable or connector family rating as whole-system approval.

STOP CONDITION

Do not force a card or approve an M.2/PCIe device from fit. A missing support statement remains unknown.

Conceptual comparisons only: no photographs, contact-position maps, measured mating geometry or actual-size templates.

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SOURCE TRAIL: EXACT ORIGINAL SCOPE

S032 / StarTech.com

SATA18 data cable

PDF p. 1: two seven-contact data receptacles; p. 3: Connector(s) table, visually inspected.

Open original: media.startech.com

Recorded inspection: 2026-10-07

S200 / Molex

Serial ATA and SAS connector system

Product-family overview

Open original: www.molex.com

Recorded inspection: 2026-10-05

S033 / Kingston

SSD FAQ

M.2 physical sizes, B/M keys, host compatibility and hot-plug questions

Open original: www.kingston.com

Recorded inspection: 2026-10-01

S427 / ATP Electronics

What is M.2? Keys and Sockets Explained

Published 22 June 2026; sections on keying versus wiring, compatibility checklist, mechanical clearance and firmware. No numbered revision stated.

Open original: www.atpinc.com

Recorded inspection: 2026-10-08

S281 / Amphenol Communications Solutions

PCI Express x16 164-position card-edge connector

Part specification detail

Open original: www.amphenol-cs.com

Recorded inspection: 2026-10-06

S429 / ASUS

PRIME B550-PLUS AC-HES User's Manual

E18712, First Edition, July 2021; specification summary printed vi-vii and layout 1-2. PDF pages 2, 6, 7 and 12 visually inspected.

Open original: dlcdnets.asus.com

Recorded inspection: 2026-10-08

S096 / CompactFlash Association

Card types and form-factor distinctions

CFexpress Form Factors; Type A versus Type B; Legacy Standards

Open original: compactflash.org

Recorded inspection: 2026-10-03

S097 / Sony

XQD G-series product support - interface identity

G-series product information and interface rows

Open original: www.sony.co.jp

Recorded inspection: 2026-10-03

S098 / Sony

CFexpress Type B CEB-G support - interface identity

CEB-G product information; interface row

Open original: www.sony.co.jp

Recorded inspection: 2026-10-03

S492 / StarTech.com

USB3S2SAT3CB USB to SATA adapter datasheet

PDF page 2: drive-size exclusion and compatibility paragraphs; visually inspected.

Open original: media.startech.com

Recorded inspection: 2026-10-11

EVIDENCE NOTE: RETAIN THE EXACT MODEL AND SOURCE

Media / drive full designation:

Host / slot / firmware:

Documented interface + sharing conditions:

Power / adapter scope + missing evidence:

Inherited scoped research reused; not every source was reopened for this sheet. No source artwork, logos or full manuals are redistributed. Missing or unverified fields remain unresolved. No independent review or hardware validation.