Hardware Coverage Matrix — Ordered by Data Point (Source)

Legend: Primary (green) = canonical source for that attribute; Secondary (yellow) = confirms/adds detail.

lshw

Primary (■)	Secondary (■)
• System manufacturer / vendor • System product / model name • System version / family • Chassis type (Notebook) • System serial number • SKU / MTM • System UUID • BIOS vendor • BIOS version • BIOS date • UEFI capability • Admin password state • Power-on password state • Motherboard vendor/product/version/serial • CPU model • CPU vendor • CPU cores / threads • CPU max/base clock fields • CPU microcode revision • CPU feature flags (vmx/aes/avx etc.) • CPU caches (L1/L2/L3 sizes) • Total installed memory • DIMM/SODIMM slot inventory • Per-slot size, speed, vendor, part/serial • Current display mode/resolution (as configured) • Ethernet interface name (e.g., enp*) • Wi-Fi interface name (e.g., wlp*) • USB device drivers & integration (kernel driver shown) • Audio endpoints/devices enumerated (mic/headphone/etc.) • Input devices (touchpad/TrackPoint/buttons)	• Chipset / host bridge identity (PCI IDs) • Block device inventory (/dev/*), types • Disk model • Disk serial number • Disk capacity • Disk transport (SATA/USB), rotational/SSD • Disk firmware version • SATA/AHCI controller identity • Partition table type (GPT/MBR) • Filesystem types and UUIDs • External/removable storage attached during scan • GPU model + PCI IDs • GPU driver/module • Ethernet controller model + PCI IDs • Ethernet driver/module • Wi-Fi controller model + PCI IDs • Wi-Fi driver/module • Thunderbolt controller identity • USB xHCI controller identity • Bluetooth USB device identity • Webcam USB device identity • Fingerprint reader USB device identity • Card reader USB device identity • Audio controller identity + driver

lsblk

Primary (■)	Secondary (■)
• Block device inventory (/dev/*), types • Disk model • Disk serial number • Disk capacity • Disk transport (SATA/USB), rotational/SSD • Partition table type (GPT/MBR) • Partition list, PARTUUIDs, labels • Filesystem types and UUIDs • Mountpoints and FS utilization (where present) • External/removable storage attached during scan	• Disk WWN / LU WWN • Disk firmware version • Sector sizes (logical/physical)

smartctl

Primary (■)	Secondary (■)
• Disk WWN / LU WWN • Disk firmware version • Sector sizes (logical/physical) • SMART support/enabled + overall health • Power-on hours / power cycle count • Drive temperature (current/min/max) • Reallocated / pending / uncorrectable sector indicators • TRIM support • ATA/SATA standard + negotiated link speed • SMART attribute table (vendor-specific)	• Block device inventory (/dev/*), types • Disk model • Disk serial number • Disk capacity • Disk transport (SATA/USB), rotational/SSD

upower

Primary (■)	Secondary (■)
• Battery vendor/model/voltage (basic) • Battery serial (if present) • Battery design capacity (Wh) • Battery full capacity (Wh) + health % • Battery charge cycles • Battery charge %, energy rate, time-to-empty • AC adapter online state / on-battery state • Lid present/closed state	—

edid

Primary (■)	Secondary (■)
• Internal panel manufacturer/model • Panel manufacture week/year • Panel physical size (cm) • Panel interface (eDP/DP) + bpc + gamma • Preferred timing + supported modes • Color primaries/whitepoint coordinates	• Current display mode/resolution (as configured)

lspci

Primary (■)	Secondary (■)
• Chipset / host bridge identity (PCI IDs) • SATA/AHCI controller identity • GPU model + PCI IDs • GPU driver/module • Ethernet controller model + PCI IDs • Ethernet driver/module • Wi-Fi controller model + PCI IDs • Wi-Fi driver/module • Thunderbolt controller identity • USB xHCI controller identity • IOMMU group mapping (advanced) • Audio controller identity + driver	• Ethernet interface name (e.g., enp*) • Wi-Fi interface name (e.g., wlp*)

lsusb

Primary (■)	Secondary (■)
• USB bus topology (root hubs) • Bluetooth USB device identity • Webcam USB device identity • Fingerprint reader USB device identity • Card reader USB device identity	• External/removable storage attached during scan • USB device drivers & integration (kernel driver shown)