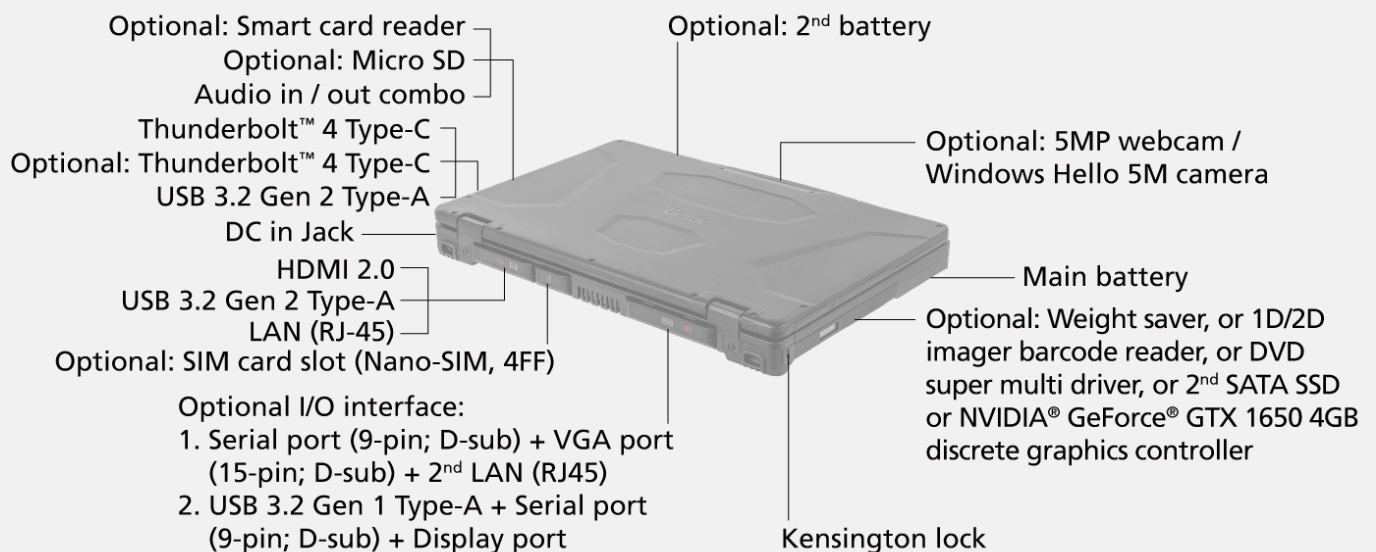# S510 RUGGED LAPTOP

- AI-ready with the latest Intel® Core™ Ultra Processors and Intel® AI Boost technology
- 15.6" display with Getac sunlight readable technology (1,000 nits) and glove-enabled capacitive touchscreen
- Sustainable chassis with enterprise-level ruggedness for a greener future
- Enhanced enterprise security with Intel® vPro®, Windows Hello face-authentication camera, TPM 2.0, and many more multi-factor authentication options
- Versatile I/O options including up to two Thunderbolt™ 4 and docking solutions

CERTIFIED MIL-STD 810H | INGRESS PROTECTION IP53 | 3' DROP

Optional: Smart card reader
Optional: Micro SD
Audio in / out combo
Thunderbolt™ 4 Type-C
Optional: Thunderbolt™ 4 Type-C
USB 3.2 Gen 2 Type-A
DC in Jack
HDMI 2.0
USB 3.2 Gen 2 Type-A
LAN (RJ-45)
Optional: SIM card slot (Nano-SIM, 4FF)

Optional I/O interface:
1. Serial port (9-pin; D-sub) + VGA port (15-pin; D-sub) + 2nd LAN (RJ45)
2. USB 3.2 Gen 1 Type-A + Serial port (9-pin; D-sub) + Display port

Optional: 2nd battery

Optional: 5MP webcam / Windows Hello 5M camera

Main battery
Optional: Weight saver, or 1D/2D imager barcode reader, or DVD super multi driver, or 2nd SATA SSD or NVIDIA® GeForce® GTX 1650 4GB discrete graphics controller

Kensington lock

SPECIFICATIONS

Operating System
Windows 11 Pro

CPU (Mobile Computing Platform)
Intel® Core™ Ultra 5 processor 125U
Max. 4.3GHz with Intel® Turbo Boost Technology
- 12 MB Intel® Smart Cache

Platform options:
Intel® Core™ Ultra 5 processor 135U, vPro® Enterprise [i]
Max. 4.4GHz with Intel® Turbo Boost Technology
- 12 MB Intel® Smart Cache

Intel® Core™ Ultra 7 processor 155U
Max. 4.8GHz with Intel® Turbo Boost Technology
- 12 MB Intel® Smart Cache

Intel® Core™ Ultra 7 processor 165U, vPro® Enterprise [i]
Max. 4.9GHz with Intel® Turbo Boost Technology
- 12 MB Intel® Smart Cache

GPU (VGA Controller)
Intel® Graphics
Optional: NVIDIA® GeForce® GTX 1650 4GB
discrete graphics controller [ii, iii]

NPU
Intel® AI Boost

Display
15.6" TFT LCD FHD (1920 x 1080)
Protection film
1,000 nits display with Getac sunlight readable technology
Optional: Capacitive multi-touch LumiBond screen [ii]

Storage & Memory
8GB DDR5
Optional: 16GB / 32GB / 64GB DDR5

256GB PCIe NVMe SSD
Optional: 512GB / 1TB / 2TB PCIe NVMe SSD

Optional: Multimedia bay 2nd storage: 512GB /
1TB SATA SSD [iii, iv]

Keyboard
LED backlit membrane keyboard

Pointing Device
Touchscreen
- Optional: Capacitive multi-touch screen touchpad
- Glide touchpad with multi-touch

Expansion Slot
Optional: Smart card reader

Multimedia Bay
Weight saver
Optional: 1D/2D imager barcode reader [iii]
Optional: DVD super multi drive [iii, iv]
Optional: 2nd Storage [iii, iv]
Optional: NVIDIA® GeForce® GTX 1650 4GB
discrete graphics controller [ii, iii]

I/O Interface
Audio in/out combo x 1
DC in Jack x 1
USB 3.2 Gen 2 Type-A x 2
Thunderbolt™ 4 Type-C x 1
Optional: MicroSD x 1
LAN (RJ45) x 1
HDMI 2.0 x 1
Optional: SIM card slot x 1 (Nano-SIM, 4FF) [v]
Optional: 5M pixels webcam x 1 [vi]
Optional: Windows Hello face-authentication 5M camera
(front-facing) x 1 [vi]
Docking connector x 1
Optional: Thunderbolt™ 4 Type-C x 1 [i]
Optional: RF antenna pass-through for GPS, WWAN and
WLAN

Configurable I/O options :
1. LAN (RJ45) [vii] + Serial port (9-pin; D-sub) + VGA port
(15-pin; D-sub)
2. USB 3.2 Gen 1 Type-A + Serial port (9-pin; D-sub) +
Display port

Communication Interface
10/100/1000 base-T Ethernet
Intel® Wi-Fi 6E AX211, 802.11ax
Bluetooth (v5.3) [viii]
Optional: 2.5GBASE-T Ethernet [vii]
Optional: Dual SIM (Nano-SIM 4FF and e-SIM) [v, ix]
Optional: 4G LTE mobile broadband [v]
Optional: 5G Sub-6 [v, x]
Optional: Dedicated GPS with L1/L5 [xi]

Security Feature
TPM 2.0
Kensington lock
Optional: Intel® vPro® Technology [i]
Optional: Fingerprint reader
Optional: HF RFID reader [xii]
Optional: Windows Hello face-authentication 5M camera
(front-facing) [vi]

Power
Battery (10.8V, typical 6900mAh; min. 6600mAh)
AC adapter (65W, 100-240VAC)
Optional: 2nd battery (10.8V, typical 6900mAh; min. 6600mAh) [ii]
Optional: AC adapter (90W, 100-240VAC, 50/60Hz) [ii]

Dimension (W x D x H) & Weigh
375 x 277 x 39mm (14.8" x 10.9" x 1.5"),
2350g (5.18lbs) [xiii]

Rugged Feature
MIL-STD-810H certified
IP53 certified
Vibration & 3ft (0.9m) drop resistant [xiv]

Environmental Specification
Temperature [xv]:
- Operating: -29°C to 63°C / -20°F to 145°F [xvi]
- Storage: -51°C to 71°C / -60°F to 160°F
Humidity:
- 95% RH, non-condensing

Pre-installed Software
Getac Utility
Getac Geolocation
Getac Barcode Manager [xvii]
Optional: Absolute Persistence®

Optional software
Getac Driving Safety Utility
Getac Device Monitoring System (GDMS)
Getac VGPS Utility [xviii]

Accessories
Battery (10.8V, typical 6900mAh; min. 6600mAh)
AC adapter (65W, 100-240VAC)

Optional:
Carry bag
Battery (10.8V, typical 6900mAh; min. 6600mAh)
Multimedia 2nd SSD [iii, iv, xix]
Multimedia bay DVD super multi drive [iii, iv, xix]
AC adapter (90W, 100-240VAC, 50/60Hz) [i]
DC-DC vehicle adapter (120W, 11-32VDC)
Multi-Bay charger (Dual-Bay)
Multi-Bay charger (Eight-Bay)
Capacitive stylus with tether
Protection film
Vehicle cradle
Vehicle dock [xx]
Spare SSD kit
100W Type-C adapter
DS100 USB-C docking station

Warranty
Nothing says quality like a manufacturer standing behind
their product. We've designed the notebook from the
inside out to survive drops, shocks, spills, vibration and
more. We're confident in our quality and that's why it
comes standard with the industry leading 3 years warranty.
It's the peace-of-mind protection of knowing you're
covered.

Standard
3 years limited warranty

S510 RUGGED LAPTOP

I. vPro® Enterprise is available for configuration with two Thunderbolt™ 4 Type-C.
II. NVIDIA® GeForce® GTX 1650 4GB discrete graphics controller is required to configure with dual battery, FHD LCD display with capacitive multi-touch screen, and 90W AC adapter.
III. NVIDIA® GeForce® GTX 1650 4GB discrete graphics controller, DVD super multi drive, 1D/2D imager barcode reader and 2nd storage are mutually exclusive options.
IV. Trained user swappable.
V. Units with 4G/5G option come with an embedded SIM card slot.
VI. 5M webcam and optional Windows Hello face-authentication camera (front-facing) are mutually exclusive options.
VII. The optional 2nd LAN is 2.5GBASE-T Ethernet.
VIII. Bluetooth performance and connectable distance may be subject to interference with the environments and performance on client devices. Users may be able to reduce effects of interference by minimizing the number of active Bluetooth wireless devices that are operating in the area.
IX. One physical SIM card slot and one eSIM. Network service may vary depending on local telecommunication providers.
X. Only available in the US, UK, EU, Australia, and New Zealand.
XI. Support GPS, GLONASS, Galileo, BeiDou and QZSS.
XII. 13.56MHz HF RFID reader (ISO 15693, 14443 A/B, Mifare and FeliCa™ compliant).
XIII. Weight and dimensions vary from configurations and optional accessories.
XIV. Drop test results vary from configurations and optional accessories.
XV. Tested by an independent third-party test lab following MIL-STD-810H.
XVI. For optional DVD super-multi drive, the operating temperature is -10°C to 50°C / 14°F to 122°F.
XVII. Available when barcode reader option is selected.
XVIII. Models require either embedded or standalone GPS module.
XIX. The multimedia bay 2nd SSD and DVD super multi drive can only replace the weight saver and the original configuration.
XX. Gamber-Johnson and Havis vehicle docks are e-mark certified.

Information provided herewith is for reference only, available specification shall be subjected to quotation by request.

	Vehicle Dock (Gamber-Johnson, Havis)	DS100 USB-C Docking Station
Serial Port	1	-
Audio Output	-	1
DC in Jack	1	1
USB	USB-A 3.0 x 2, USB-A 2.0 x 2, USB-C 3.0 x 1	USB-A 2.0 x 2, USB-A 3.2 x 3, USB-C 3.2 x 2
LAN	1	1
HDMI	1	1
Display Port	-	2
RF Antenna Connector	3 (WWAN, WLAN, GPS)	-
Kensington Lock	-	-

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