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ASUS ROG Strix SCAR 15 G533ZX-LN083W Intel® Core™ i9 i9-12900H Laptop 39.6 cm (15.6") Wide Quad HD 32 GB DDR5-SDRAM 2 TB SSD NVIDIA GeForce RTX 3080 Ti Wi-Fi 6E (802.11ax) Windows 11 Home Black

Brand : ASUS

Product family: ROG

Product code: 90NR08E2-M00410

Product name : G533ZX-LN083W

- Windows 11 Home 64-bit
- Intel Core i9-12900H (24MB Cache)
- 39.6 cm (15.6") Wide Quad HD 2560 x 1440 IPS, NVIDIA GeForce RTX 3080 Ti (16GB GDDR6)
- 32GB (4800MHz) DDR5-SDRAM (2 x 16) & 2000GB SSD

Intel Core i9-12900H (24MB Cache), 32GB DDR5-SDRAM, 2000GB SSD, 39.6 cm (15.6") Wide Quad HD 2560 x 1440 IPS, Intel Iris Xe Graphics, NVIDIA GeForce RTX 3080 Ti (16GB GDDR6), LAN, WLAN, Windows 11 Home 64-bit

ASUS ROG Strix SCAR 15 G533ZX-LN083W. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i9, Processor model: i9-12900H. Display diagonal: 39.6 cm (15.6"), HD type: Wide Quad HD, Display resolution: 2560 x 1440 pixels. Internal memory: 32 GB, Internal memory type: DDR5-SDRAM. Total storage capacity: 2 TB, Storage media: SSD. On-board graphics card model: Intel Iris Xe Graphics, Discrete graphics card model: NVIDIA GeForce RTX 3080 Ti. Operating system installed: Windows 11 Home. Product colour: Black

Design

Colour name	Off Black
Product type *	Laptop
Product colour *	Black
Form factor *	Clamshell
Market positioning	Gaming
Introduction year	2022
Country of origin	China

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	2560 x 1440 pixels
Touchscreen *	✘
HD type	Wide Quad HD
Panel type	IPS
Native aspect ratio	16:9
Anti-glare screen	✔
Display brightness	300 cd/m²
RGB colour space	DCI-P3
Colour gamut	100%
Display response rise/fall	3 ms
Maximum refresh rate	240 Hz
Contrast ratio (typical)	1000:1

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i9
Processor generation	12th gen Intel® Core™ i9
Processor model *	i9-12900H
Processor cores	14
Processor cache	24 MB

Network

Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000,2500 Mbit/s
Bluetooth	✔
Bluetooth version	5.2

Ports & interfaces

USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
HDMI version	2.1
Thunderbolt 4 ports quantity	1
Intel® Thunderbolt 4	✔
Combo headphone/mic port	✔
USB Type-C DisplayPort Alternate Mode	✔
USB Power Delivery	✔

Keyboard

Pointing device	Touchpad
Numeric keypad *	✘
Keyboard backlit	✔
Keyboard backlit colour	RGB

Software

Operating system architecture	64-bit
Operating system installed *	Windows 11 Home

Processor special features

Intel Flex Memory Access	✔

Processor

Configurable TDP-down	35 W

Memory

Internal memory *	32 GB
Internal memory type	DDR5-SDRAM
Memory clock speed	4800 MHz
Memory form factor	SO-DIMM
Memory layout (slots x size)	2 x 16 GB
Memory slots	2x SO-DIMM
Maximum internal memory *	64 GB

Storage

Total storage capacity *	2 TB
Storage media *	SSD
Total SSDs capacity	2 TB
Number of SSDs installed	1
SSD capacity	2 TB
SSD interface	NVMe, PCI Express 4.0
NVMe	✓
SSD form factor	M.2
Optical drive type *	✗
Card reader integrated	✗

Graphics

Discrete GPU manufacturer	NVIDIA
Discrete graphics card model *	NVIDIA GeForce RTX 3080 Ti
Discrete graphics card memory	16 GB
Discrete graphics memory type	GDDR6
On-board graphics card *	✓
On-board GPU manufacturer	Intel
Discrete graphics card *	✓
On-board graphics card model *	Intel Iris Xe Graphics
NVIDIA G-SYNC	✓

Audio

Audio system	Dolby Atmos
Number of built-in speakers	4
Built-in microphone	✓

Network

Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)
Wi-Fi standards	Wi-Fi 6E (802.11ax)
Mobile network connection *	✗
Antenna type	2x2

Processor special features

Intel Trusted Execution Technology	✓
Intel VT-x with Extended Page Tables (EPT)	✓
Intel Stable Image Platform Program (SIPP)	✓
Execute Disable Bit	✓
CPU configuration (max)	1
Embedded options available	✗
Intel Virtualization Technology for Directed I/O (VT-d)	✓
Intel Virtualization Technology (VT-x)	✓

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	4
Battery capacity *	90 Wh

Power

AC adapter power	280 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
AC adapter output current	14 A
AC adapter output voltage	20 V

Security

Trusted Platform Module (TPM)	✓
Password protection	✓
Password protection type	BIOS, User

Weight & dimensions

Width	354 mm
Depth	259 mm
Height (front)	2.26 cm
Height (rear)	2.72 cm
Weight *	2.3 kg

Packaging data

Package width	90 mm
Package depth	465 mm
Package height	335 mm
Package weight	4.82 kg

Logistics data

Harmonized System (HS) code	8471300000

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