

SPECIFICATIONS

Model Name	GeForce RTX™ 3090 Ti SUPRIM X 24G
Graphics Processing Unit	NVIDIA® GeForce RTX™ 3090 Ti
Interface	PCI Express® Gen 4
CUDA® CORES	10752 Units
Core Clocks	Extreme Performance: 1965 MHz (MSI Center) Boost: 1950 MHz (GAMING & SILENT Mode)
Memory Speed	21 Gbps
Memory	24GB GDDR6X
Memory Bus	384-bit
Output	DisplayPort x 3 (v1.4a) HDMI x 1 (2.1) (Supports 4K 120Hz HDR, 8K 60Hz HDR and Variable Refresh Rate as specified in HDMI 2.1)
HDCP Support	Y
Power consumption	480W
Power connectors	16-pin x 1
Recommended PSU	850 W
Card Dimension (mm)	338 x 140 x 71 mm
Weight (Card / Package)	2154g / 3309g
DirectX Version Support	12 Ultimate
OpenGL Version Support	4.6
NVLink Support	Y
Maximum Displays	4
VR Ready	Y
G-SYNC® technology	Y
Digital Maximum Resolution	7680 x 4320

FEATURES



TRI FROZR 2S

Thermals are kept in check in masterful ways under that sculpted exterior, letting you focus on your games.



TORX FAN 4.0

A masterpiece of teamwork, fan blades work in pairs to create unprecedented levels of focused air pressure.



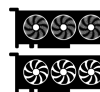
Core Pipe

Precision-machined heat pipes ensure max contact and spread heat along the full length of the heatsink.



Airflow Control

Don't sweat it, Airflow Control guides the air to exactly where it needs to be for maximum cooling.



Zero Frozr

Zero Frozr is the calm before the storm, keeping fans still and maintaining silence until cooling is needed.



Aluminum Backplate

Thermal pads beneath the sturdy metal backplate provide additional cooling.



Dual BIOS

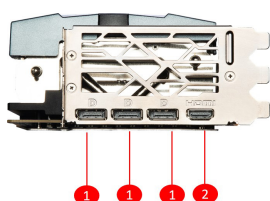
Dual BIOS gives you the choice to prioritize for full performance in GAMING mode or low noise in SILENT mode.



MSI Center

Migrate data with backup & restore functionality, monitor drive health and performance metrics in real-time in MSI Center.

CONNECTIONS



1. DisplayPort
2. HDMI



GRAPHICS CARDS

GeForce RTX 3090 Ti SUPRIM X 24G



Generated 2022-03-30, check for the latest version www.msi.com/datasheet. The information provided in this document is intended for informational purposes only and is subject to change without notice.