

Samsung QN90D QE50QN90DATXXN TV 127 cm (50") 4K Ultra HD Smart TV Wi-Fi Black, Titanium

Brand : Samsung

Product family: QN90D

Product code:
QE50QN90DATXXN

Product name :
QE50QN90DATXXN

Samsung QN90D QE50QN90DATXXN. Display diagonal: 127 cm (50"), Display resolution: 3840 x 2160 pixels, HD type: 4K Ultra HD, Display technology: Neo QLED, Screen shape: Flat, LED backlighting type: Mini LED. Smart TV. Motion interpolation technology: Motion Xcelerator, Native aspect ratio: 16:9. Digital signal format system: DVB-C, DVB-S2, DVB-T2. Wi-Fi, Ethernet LAN. Product colour: Black, Titanium



Display		Performance	
Display diagonal *	127 cm (50")	High Dynamic Range (HDR) supported *	✓
HD type *	4K Ultra HD	AMD FreeSync	✓
Display technology *	Neo QLED	AMD FreeSync type	FreeSync Premium Pro
LED backlight	✓	Game features	Auto Low Latency Mode (ALLM), Dynamic Black EQ, Game Motion Plus, Gaming Hub, HGiG, Mini Map Zoom, Super Ultra Wide Game View, Surround Sound, Variable Refresh Rate (VRR)
LED backlighting type	Mini LED	4K Ultra HD upscaling	✓
Screen shape *	Flat	SmartThings app support	✓
Native aspect ratio *	16:9	Tap view	✓
Motion interpolation technology *	Motion Xcelerator	Adaptive picture	✓
Native refresh rate	100 Hz	Multi View	✓
Display refresh rates supported	144 Hz	TV sound to mobile device	✓
Dynamic contrast ratio marketing name	Quantum Matrix Technology	USB recording	✓
Display resolution *	3840 x 2160 pixels	ConnectShare (HDD)	✓
Display diagonal (metric)	125 cm	ConnectShare (USB)	✓
Anti-glare screen	✓	Ports & interfaces	
TV tuner		Audio Return Channel (ARC)	✓
Tuner type *	Analog & digital	PC in (D-Sub) *	✗
Digital signal format system *	DVB-C, DVB-S2, DVB-T2	Ethernet LAN (RJ-45) ports	1
Smart TV		USB 2.0 ports quantity *	2
Smart TV *	✓	Digital audio optical out	1
Internet TV *	✓	RF ports quantity	2
Operating system installed *	Tizen	RF connector type	F, IEC
Timeshift	✓	Common interface Plus (CI+) *	✓
Screen mirroring	✓	Common interface Plus (CI+) version	1.4
Sound mirroring	✓	HDMI ports quantity *	4
Hybrid Broadcast Broadband TV (HbbTV)	✓	Consumer Electronics Control (CEC)	Anynet+
Hybrid Broadcast Broadband TV (HbbTV) version	2.0.3	AC (power) in	✓
TV initiate mirroring	✓	Management features	
Universal guide	✓	Voice control	✓
Video apps	Samsung TV Plus	Electronic Programme Guide (EPG)	✓
Audio		On Screen Display (OSD)	✓
RMS rated power *	40 W		
Audio output channels	2.2 channels		

Audio		Management features	
Audio decoders	Dolby Atmos	Auto power off	✓
Audio pre-selection descriptor	✓	Works with Amazon Alexa	✓
Music wall	✓	Works with the Google Assistant	✓
Active voice amplifier (AVA)	✓	Works with Samsung Bixby	✓
Adaptive sound+	✓	Universal Browse & Play	✓
Multiroom	✓		
Multiroom audio technology	Samsung Multiroom Link		
Enhanced Audio Return Channel (eARC)	✓		
Network		Power	
Wi-Fi *	✓	Power consumption (typical) *	61 W
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac)	Power consumption (standby) *	0.5 W
Bluetooth *	✓	Power consumption (max)	175 W
Bluetooth version	5.2	Energy efficiency class (HDR) *	G
Ethernet LAN *	✓	Energy efficiency class (SDR) *	F
Design		Energy consumption (HDR) per 1000 hours *	133 kWh
Product colour *	Black, Titanium	Energy consumption (SDR) per 1000 hours *	61 kWh
Colour name	Titan Black	AC input voltage	220 - 240 V
VESA mounting *	✓	AC input frequency	50/60 Hz
Panel mounting interface	200 x 200 mm	Energy saving mode	✓
Frameless design	✓	Energy efficiency scale	A to G
Introduction year	2024	Brand-specific features	
Bezel type	3 Bezel-less	AI Scaling, AMD FreeSync™ Premium Pro, Active Voice Amplifier Pro, Adaptive Sound Pro, Ambient Mode+, Auto HDR Remastering, Buds Auto Switch, Built-in SmartThings Hub, Dolby Atmos®, Expert Calibration, EyeComfort Mode, Gaming Hub, HDMI eARC, HDR10+, Mobile Tap Mirroring, Motion Xcelerator, Neo Quantum HDR, Neural Quantum Processor 4K, Object Tracking Sound Lite, Q-Symphony, Quantum Dot Display, Quantum Matrix Technology, Samsung Multi View, Samsung TV Plus, Smart Calibration, Smart TV powered by Tizen, Solar Cell One Remote, Ultimate UHD Dimming, Wide Viewing Angle	
Slim fit wall mount support	✓	Samsung technologies (AV/TV)	
Stand type	Hexagon stand		
Stand colour	Black		
Performance		Weight & dimensions	
High Dynamic Range (HDR) technology	Filmmaker Mode, High Dynamic Range 10+ (HDR10 Plus), Hybrid Log-Gamma (HLG)	Width (with stand)	1113.6 mm
Game mode	✓	Depth (with stand)	220 mm
Teletext function	✓	Height (with stand)	705.4 mm
Ambient mode	Ambient Mode+	Weight (with stand)	17.6 kg
Eco sensor	✓	Width (without stand)	1113.6 mm
Brightness detection	✓	Depth (without stand)	26.9 mm
Colour detection	✓	Height (without stand)	644.1 mm
AI Upscale	✓	Weight (without stand)	13.5 kg
TV key support	✓	Stand width	51.9 cm
Backlight dimming technology	Ultimate UHD dimming	Stand depth	22 cm
Picture processing technology	Neural Quantum Processor 4K Gen 2, Samsung Real Depth Enhancer Pro	Packaging data	
Noise reduction *	✓	Package width	1317 mm
		Package depth	140 mm
		Package height	767 mm
		Package weight	22.5 kg
		Packaging content	
		Desktop stand	✓
		Cables included	AC
		Remote control included	✓
		Remote control type	TM2360E
		E-manual	✓



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