SAMSUNG

Samsung QN90D TQ50QN90DAT 127 cm (50") 4K Ultra HD Smart TV Wi-Fi Black

Brand : Samsung

Product family: QN90D

Product code:
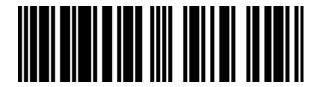TQ50QN90DATXXC

Product name : TQ50QN90DAT

Samsung QN90D TQ50QN90DAT. Display diagonal: 127 cm (50"), Display resolution: 3840 x 2160 pixels, HD type: 4K Ultra HD, Display technology: Neo QLED, Screen shape: Flat. 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

Display

Display diagonal *	127 cm (50")
HD type *	4K Ultra HD
Display technology *	Neo QLED
LED backlight	✔
Screen shape *	Flat
Native aspect ratio *	16:9
Motion interpolation technology *	Motion Xcelerator
Native refresh rate	100 Hz
Display refresh rates supported	144 Hz
Dynamic contrast ratio marketing name	Quantum Matrix Technology
Display resolution *	3840 x 2160 pixels
Display diagonal (metric)	125 cm
Anti-glare screen	✔

TV tuner

Tuner type *	Analog & digital
Digital signal format system *	DVB-C, DVB-S2, DVB-T2
Number of tuners	2 tuner(s)
Auto channel search	✔

Smart TV

Smart TV *	✔
Internet TV *	✔
Operating system installed *	Tizen
Screen mirroring	✔
Sound mirroring	✔
Hybrid Broadcast Broadband TV (HbbTV)	✔
Hybrid Broadcast Broadband TV (HbbTV) version	2.0.3
TV initiate mirroring	✔
Universal guide	✔
Video apps	Samsung TV Plus

Audio

Number of speakers *	2

Performance

AMD FreeSync type	FreeSync Premium Pro
Game features	Auto Low Latency Mode (ALLM), Dynamic Black EQ, Game Bar, Game Motion Plus, Gaming Hub, HGiG, Mini Map Zoom, Super Ultra Wide Game View, Surround Sound, Variable Refresh Rate (VRR)
4K Ultra HD upscaling	✔
SmartThings app support	✔
Tap view	✔
Wireless Dex support	✔
Multi View	✔
TV sound to mobile device	✔
Smartphone remote support	✔
USB recording	✔

Ports & interfaces

HDMI version	2.1
Audio Return Channel (ARC)	✔
PC in (D-Sub) *	✘
Ethernet LAN (RJ-45) ports	1
USB 2.0 ports quantity *	2
Digital audio optical out	1
Common interface (CI) *	✔
Common interface Plus (CI+) *	✔
Common interface Plus (CI+) version	1.4
HDMI ports quantity *	4
Consumer Electronics Control (CEC)	Anynet+

Management features

Voice control	✔
Voice guide	✔
Electronic Programme Guide (EPG)	✔
On Screen Display (OSD)	✔
Number of OSD languages	27

Audio

RMS rated power *	40 W
Audio output channels	2.0 channels
Audio decoders	Dolby Atmos
Sound modes	Adaptive Sound Pro
Audio pre-selection descriptor	✔
Q-Symphony	✔
Active voice amplifier (AVA)	✔
Enhanced Audio Return Channel (eARC)	✔

Network

Wi-Fi *	✔
Wi-Fi standards	Wi-Fi 5 (802.11ac)
Bluetooth *	✔
Bluetooth version	5.2
Ethernet LAN *	✔
Web browser	✔

Design

Product colour *	Black
VESA mounting *	✔
Panel mounting interface	200 x 200 mm
Introduction year	2024
Bezel type	3 Bezel-less
Mini wall mount support	✔
Slim fit wall mount support	✔
Stand type	Center stand
Stand colour	Black

Performance

High Dynamic Range (HDR) technology	Filmmaker Mode, High Dynamic Range 10 (HDR10), High Dynamic Range 10+ Adaptive (HDR10 Plus Adaptive), High Dynamic Range 10+ Gaming (HDR10 Plus Gaming), Neo Quantum HDR
Game mode	✔
Subtitles function	✔
Ambient mode	Yes
Eco sensor	✔
Brightness detection	✔
AI Upscale	✔
TV key support	✔
Picture processing technology	Neural Quantum Processor 4K, Samsung Real Depth Enhancer Pro
Picture processor	NQ4 AI Gen2
High Dynamic Range (HDR) supported *	✔
AMD FreeSync	✔

Management features

Picture-in-Picture	✔
ECO mode	✔
Auto power off	✔
Works with Amazon Alexa	✔
Works with the Google Assistant	✔
Works with Samsung Bixby	✔

Power

Power consumption (typical) *	61 W
Power consumption (standby) *	0,5 W
Power consumption (max)	175 W
Energy efficiency class (SDR) *	F
Energy efficiency class (HDR) *	G
Energy consumption (SDR) per 1000 hours *	61 kWh
Energy consumption (HDR) per 1000 hours *	133 kWh
AC input voltage	220-240 V
AC input frequency	50/60 Hz
Energy efficiency scale	A to G

Brand-specific features

Samsung technologies (AV/TV)	4K AI Upscaling, Active Voice Amplifier Pro, Adaptive Sound Pro, Auto HDR Remastering, Micro Dimming, Motion Xcelerator Turbo Pro, Neo Quantum HDR, Object Tracking Sound Lite, Quantum Matrix Technology, Smart Calibration, Ultimate UHD Dimming, Wide Viewing Angle

Weight & dimensions

Width (with stand)	1113,6 mm
Depth (with stand)	220 mm
Height (with stand)	705,4 mm
Weight (with stand)	17,6 kg
Width (without stand)	1113,6 mm
Depth (without stand)	26,9 mm
Height (without stand)	644,1 mm
Weight (without stand)	13,5 kg
Stand width	51,9 cm
Stand depth	22 cm

Packaging data

Package width	1317 mm
Package depth	140 mm
Package height	767 mm
Package weight	20,6 kg
Package type	Box

Packaging content

Cables included	AC
Handheld remote control	✔
Remote control type	TM2360E
E-manual	✔

Other features

Smart calibration	✔
Built-in microphone	✔

8806095395319

Catalog Object Cloud