

## 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                                       |                           | Performance                         |                                  |
|---|---------------------------|-------------------------------------|----------------------------------|
| Display diagonal *                            | 127 cm (50")              | AMD FreeSync type                   | FreeSync Premium Pro             |
| HD type *                                     | 4K Ultra HD               |                                     | Auto Low Latency Mode (ALLM),    |
| Display technology *                          | Neo QLED                  |                                     | Dynamic Black EQ, Game Bar,      |
| LED backlight                                 | ✓                         | Game features                       | Game Motion Plus, Gaming Hub,    |
| Screen shape *                                | Flat                      |                                     | HGiG, Mini Map Zoom, Super Ultra |
| Native aspect ratio *                         | 16:9                      |                                     | Wide Game View, Surround Sound,  |
| Motion interpolation technology *             | Motion Xcelerator         | 4K Ultra HD upscaling               | Variable Refresh Rate (VRR)      |
| Native refresh rate                           | 100 Hz                    | SmartThings app support             | ✓                                |
| Display refresh rates supported               | 144 Hz                    | Tap view                            | ✓                                |
| Dynamic contrast ratio marketing name         | Quantum Matrix Technology | Wireless Dex support                | ✓                                |
| Display resolution *                          | 3840 x 2160 pixels        | Multi View                          | ✓                                |
| Display diagonal (metric)                     | 125 cm                    | TV sound to mobile device           | ✓                                |
| Anti-glare screen                             | ✓                         | Smartphone remote support           | ✓                                |
| TV tuner                                      |                           | USB recording                       | ✓                                |
| Tuner type *                                  | Analog & digital          | Ports & interfaces                  |                                  |
| Digital signal format system *                | DVB-C, DVB-S2, DVB-T2     | HDMI version                        | 2.1                              |
| Number of tuners                              | 2 tuner(s)                | Audio Return Channel (ARC)          | ✓                                |
| Auto channel search                           | ✓                         | PC in (D-Sub) *                     | ✗                                |
| Smart TV                                      |                           | Ethernet LAN (RJ-45) ports          | 1                                |
| Smart TV *                                    | ✓                         | USB 2.0 ports quantity *            | 2                                |
| Internet TV *                                 | ✓                         | Digital audio optical out           | 1                                |
| Operating system installed *                  | Tizen                     | Common interface (CI) *             | ✓                                |
| Screen mirroring                              | ✓                         | Common interface Plus (CI+) *       | ✓                                |
| Sound mirroring                               | ✓                         | Common interface Plus (CI+) version | 1.4                              |
| Hybrid Broadcast Broadband TV (HbbTV)         | ✓                         | HDMI ports quantity *               | 4                                |
| Hybrid Broadcast Broadband TV (HbbTV) version | 2.0.3                     | Consumer Electronics Control (CEC)  | Anynet+                          |
| TV initiate mirroring                         | ✓                         | Management features                 |                                  |
| Universal guide                               | ✓                         | Voice control                       | ✓                                |
| Video apps                                    | Samsung TV Plus           | Voice guide                         | ✓                                |
| Audio   |                           | Electronic Programme Guide (EPG)    | ✓                                |
| Number of speakers *                          | 2                         | On Screen Display (OSD)             | ✓                                |
|   |                           | Number of OSD languages             | 27                               |

| Audio                                |  | Management features                       |  |
|--------------------------------------|--|---|--|
| RMS rated power *                    | 40 W   | Picture-in-Picture                        | ✓  |
| Audio output channels                | 2.0 channels   | ECO mode                                  | ✓  |
| Audio decoders                       | Dolby Atmos  | Auto power off                            | ✓  |
| Sound modes                          | Adaptive Sound Pro   | Works with Amazon Alexa                   | ✓  |
| Audio pre-selection descriptor       | ✓  | Works with the Google Assistant           | ✓  |
| Q-Symphony                           | ✓  | Works with Samsung Bixby                  | ✓  |
| Active voice amplifier (AVA)         | ✓  |   |  |
| Enhanced Audio Return Channel (eARC) | ✓  |   |  |
| Network                              |  | Power                                     |  |
| Wi-Fi *                              | ✓  | Power consumption (typical) *             | 61 W   |
| Wi-Fi standards                      | Wi-Fi 5 (802.11ac)   | Power consumption (standby) *             | 0,5 W  |
| Bluetooth *                          | ✓  | Power consumption (max)                   | 175 W  |
| Bluetooth version                    | 5.2  | Energy efficiency class (SDR) *           | F  |
| Ethernet LAN *                       | ✓  | Energy efficiency class (HDR) *           | G  |
| Web browser                          | ✓  | Energy consumption (SDR) per 1000 hours * | 61 kWh   |
| Design                               |  | Energy consumption (HDR) per 1000 hours * | 133 kWh  |
| Product colour *                     | Black  | AC input voltage                          | 220-240 V  |
| VESA mounting *                      | ✓  | AC input frequency                        | 50/60 Hz   |
| Panel mounting interface             | 200 x 200 mm   | Energy efficiency scale                   | A to G   |
| Introduction year                    | 2024   | Brand-specific features                   |  |
| Bezel type                           | 3 Bezel-less   | 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 |
| Mini wall mount support              | ✓  |   |  |
| Slim fit wall mount support          | ✓  |   |  |
| Stand type                           | Center stand   |   |  |
| Stand colour                         | Black  |   |  |
| Performance                          |  | Weight & dimensions                       |  |
| 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 | Width (with stand)                        | 1113,6 mm  |
|                                      |  | Depth (with stand)                        | 220 mm   |
|                                      |  | Height (with stand)                       | 705,4 mm   |
|                                      |  | Weight (with stand)                       | 17,6 kg  |
| Game mode                            | ✓  | Width (without stand)                     | 1113,6 mm  |
| Subtitles function                   | ✓  | Depth (without stand)                     | 26,9 mm  |
| Ambient mode                         | Yes  | Height (without stand)                    | 644,1 mm   |
| Eco sensor                           | ✓  | Weight (without stand)                    | 13,5 kg  |
| Brightness detection                 | ✓  | Stand width                               | 51,9 cm  |
| AI Upscale                           | ✓  | Stand depth                               | 22 cm  |
| TV key support                       | ✓  | Packaging data                            |  |
| Picture processing technology        | Neural Quantum Processor 4K, Samsung Real Depth Enhancer Pro   | Package width                             | 1317 mm  |
|                                      |  | Package depth                             | 140 mm   |
| Picture processor                    | NQ4 AI Gen2  | Package height                            | 767 mm   |
| High Dynamic Range (HDR) supported * | ✓  | Package weight                            | 20,6 kg  |
| AMD FreeSync                         | ✓  | Package type                              | Box  |
|                                      |  | Packaging content                         |  |
|                                      |  | Cables included                           | AC   |
|                                      |  | Handheld remote control                   | ✓  |
|                                      |  | Remote control type                       | TM2360E  |
|                                      |  | E-manual                                  | ✓  |
|                                      |  | Other features                            |  |
|                                      |  | Smart calibration                         | ✓  |
|                                      |  | Built-in microphone                       | ✓  |



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### Catalog Object Cloud



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