

Samsung QN90F QE65QN90FAT 165.1 cm (65") 4K Ultra HD Smart TV Wi-Fi Black, Titanium

Brand : Samsung

Product family: QN90F

Product code: QE65QN90FATXXH

Product name : QE65QN90FAT

- 4K AI Upscaling Pro & NQ4 AI Gen3 Processor¹: Our best 4K AI processor optimises picture and sound for our ultimate 4K viewing
- Neo Quantum HDR+ with Mini LEDs, now Glare Free⁵: See every detail with bright whites, deep blacks and stunning contrast - glare free
- AI Motion Enhancer Pro and Motion Xcelerator 165Hz¹²: AI delivers ultra-smooth motion and virtually no lag or blur for sports and gaming
- Dolby Atmos® with Object Tracking Sound+: Get wrapped up in 8-speaker sound that moves with the action
- Quantum Matrix Technology Plus: Don't miss a thing with Mini LED technology for a brighter, better picture

65" Neo QLED QN90F 4K Vision AI Smart TV (2025)
Samsung QN90F QE65QN90FAT. Display diagonal: 165.1 cm (65"), Display resolution: 2160 x 3840 pixels, HD type: 4K Ultra HD, Display technology: Neo QLED, Screen shape: Flat. Smart TV. Motion interpolation technology: Motion Xcelerator. Digital signal format system: DVB-CS2, DVB-T2. Wi-Fi, Ethernet LAN. Product colour: Black, Titanium



Display		Performance	
Display diagonal *	165.1 cm (65")	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)
HD type *	4K Ultra HD		
Display technology *	Neo QLED		
Screen shape *	Flat		
Motion interpolation technology *	Motion Xcelerator		
Native refresh rate	120 Hz		Tap view ✓
Display refresh rates supported	165 Hz		Multi View ✓
Display resolution *	2160 x 3840 pixels	Ports & interfaces	
Display diagonal (metric)	163 cm	Ethernet LAN (RJ-45) ports	1
TV tuner		USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
Tuner type *	Analog & digital	Digital audio coaxial out	1
Digital signal format system *	DVB-CS2, DVB-T2	RF ports quantity	4
Number of tuners	2 tuner(s)	Common interface (CI) *	✓
Smart TV		Common interface Plus (CI+) *	✓
Smart TV *	✓	Common interface Plus (CI+) version	1.4
Internet TV *	✓	HDMI ports quantity *	4
Operating system installed *	Tizen	Consumer Electronics Control (CEC)	Anynet+
Apple AirPlay 2 support	✓	Management features	
Sound mirroring	✓	Electronic Programme Guide (EPG)	✓
Hybrid Broadcast Broadband TV (HbbTV)	✓	On Screen Display (OSD)	✓
Hybrid Broadcast Broadband TV (HbbTV) version	HbbTV 2.0.4	Number of OSD languages	28
Audio		Auto power off	✓
RMS rated power *	60 W	Works with Amazon Alexa	✓
Audio output channels	4.2.2 channels	Power	
Audio decoders	Dolby Atmos	Power consumption (typical) *	89 W
Sound modes	Adaptive Sound Pro	Power consumption (standby) *	0.5 W
Object Tracking Sound+ (OTS+)	✓	Power consumption (max)	270 W
Active voice amplifier (AVA)	✓	Energy efficiency class (SDR) *	F
Enhanced Audio Return Channel (eARC)	✓	Energy efficiency class (HDR) *	G
		Energy consumption (SDR) per 1000 hours *	89 kWh

Network		Power	
Wi-Fi *	✓	Energy consumption (HDR) per 1000 hours *	231 kWh
Wi-Fi standards	Wi-Fi 5 (802.11ac)	AC input voltage	220-240 V
Bluetooth *	✓	AC input frequency	50/60 Hz
Bluetooth version	5.3	Energy saving mode	✓
Ethernet LAN *	✓	Energy efficiency scale	A to G
Web browser	✓		
Design		Brand-specific features	
Product colour *	Black, Titanium	Samsung technologies (AV/TV)	AI Motion Enhancer Pro, Auto HDR Remastering Pro, EyeComfort Mode, NQ4 AI Gen3 Processor, Q-Symphony, Quantum Matrix Technology Plus, Samsung Health, Samsung TV Plus, Wide Viewing Angle
VESA mounting *	✓		
Panel mounting interface	400 x 300 mm		
Bezel type	4 Bezel-less		
Performance		Weight & dimensions	
High Dynamic Range (HDR) technology	High Dynamic Range 10+ Adaptive (HDR10 Plus Adaptive), High Dynamic Range 10+ Gaming (HDR10 Plus Gaming), Neo Quantum HDR+	Width (with stand)	1446.3 mm
Eco sensor	✓	Depth (with stand)	270.6 mm
AI Upscale	✓	Height (with stand)	891.3 mm
TV key support	✓	Weight (with stand)	27.5 kg
Backlight dimming technology	Ultimate UHD Dimming	Width (without stand)	1446.3 mm
Picture processing technology	Samsung Real Depth Enhancer Pro	Depth (without stand)	26.9 mm
High Dynamic Range (HDR) supported *	✓	Height (without stand)	828.7 mm
AMD FreeSync	✓	Weight (without stand)	24.2 kg
AMD FreeSync type	FreeSync Premium Pro	Stand width	39 cm
		Stand depth	27.1 cm
		Packaging data	
		Package width	1622 mm
		Package depth	185 mm
		Package height	935 mm
		Package weight	33.6 kg
		Package type	Box
		Packaging content	
		Remote control included	✓
		Remote control type	TM2360E (UK, Italia add TM1240A)



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