

# TX-NR6100 7.2-Channel THX Certified Network A/V Receiver



BLACK | SILVER



8K4K



COMPATIBLE WITH



## Massive THX® sound and filmlike 8K resolution

Building key noise-reduction refinements into THX® Certified Select high-current amplification, the TX-NR6100 sets the bar for reference sound while bringing 8K/60p and HDR10+ video to your compatible display over HDMI®. Enjoy Dolby Atmos® and DTS:X® soundtracks through your height-enabled surround system or use upmixing and virtualization solutions from DTS® and Dolby® to create a 3D sound-field from any layout. Cue and control music around your home with voice assistants Ok Google or Alexa, and connect a second display via HDMI Sub/Zone 2 output. Chromecast built-in™, AirPlay 2, DTS Play-Fi®, and Works with Sonos cover every multi-room situation, and if you connect passive loudspeakers, you can switch between a 7.2/5.2.2-ch and 5.2-ch + Zone 2 layout at the touch of a button via Zone 2 speaker terminals. Features such as a quality MM phono equalizer and bi-directional Bluetooth® wireless technology make this value proposition even more persuasive.

### PRODUCT HIGHLIGHTS

- 175 W/Ch THX® Certified Select DAA system
- 5.2.2-ch Dolby Atmos® and DTS:X® playback
- SMART AV Receiver™ Works with Sonos®, Chromecast built-in™, AirPlay 2, and DTS Play-Fi®; includes Spotify®, Amazon Music HD™, TIDAL, Deezer, and TunesIn streaming services<sup>3</sup>
- Works with Ok Google or Alexa<sup>4</sup>
- Stream over 5 GHz/2.4 GHz dual-band Wi-Fi® supporting the 802.11ac standard<sup>5</sup>
- HDMI® inputs 1-3 and Main/Sub output support 8K/60p(4:2:0/10-bit), 8K/30p(4:4:4/10-bit), 4K/120p(4:4:4/10-bit) video pass through
- HDMI terminals<sup>7</sup> support HDR10+, Dolby Vision and BT.2020 color; VRR (Variable Refresh Rate), ALLM (Auto Low Latency Mode), and QFT (Quick Frame Transport) passthrough; eARC (Main Out), and HDCP 2.3
- HDMI Sub/Zone 2 Out for media transmission to a projector, gaming monitor, or TV
- Send or receive audio via Bluetooth® wireless technology (RX mode: SBC/AAC, TX mode: SBC/Qualcomm® aptX™/ aptX HD)
- Refined chassis, HDMI board, DAC, Digital/Analog inputs, power-amp grounds and power lines
- Zone 2 speaker posts for powered D/A audio distribution (including HDMI/SPDIF/NET<sup>6</sup>) to passive speakers
- Zone 2/Zone B line-out (analog RCA) with Zone 2 DAC supports independent or synced D/A playback (including HDMI/SPDIF/NET<sup>6</sup>) on compatible audio systems
- AccuEQ with AccuReflex™ and subwoofer EQ

- Discrete 2-stage non-phase-shift amplifier circuitry
- Custom High-Current Low-Noise Power Transformer
- Large custom-made audio-grade power capacitors
- Strengthened power supply line supports high-current dynamics
- Refined chassis, HDMI board, DAC, Digital/Analog inputs, power-amp grounds and power lines
- Isolated network module reduces high-frequency signal interference on audio circuitry
- High current capability drives 4-ohm loads through 7 channels
- Precision 192 kHz/24-bit D/A conversion for Hi-Res Audio
- VLSC™ (Vector Linear Shaping Circuitry) filtering (Front L/R)
- PLL (Phase Locked Loop) anti-jitter technology for SPDIF audio
- Tone controls (bass/treble) for front L/R channels

### VIDEO & AUDIO SUPPORT

- Supports features defined in HDMI 2.1<sup>7</sup> specification including 8K/60p(4:4:4/12-bit<sup>8</sup>, 4:2:2/12-bit<sup>8</sup>, 4:2:0/10-bit), 8K/30p(4:4:4/12-bit<sup>8</sup>, 4:4:4/10-bit, 4:2:2/12-bit), 4K/120p(4:4:4/12-bit<sup>8</sup>, 4:4:4/10-bit, 4:2:2/12bit) video passthrough, VRR, ALLM, QFT (Quick Frame Transport), DSC (Display Stream Compression), QMS (Quick Media Switching) and eARC (Main Out); supports HDR10+, Dolby Vision™, HDR10, and HLG, and BT.2020 color; DeepColor™, x.v.Color™, LipSync, and HDCP 2.3
- Dolby Atmos, DTS:X, Dolby® TrueHD, and DTS-HD Master Audio<sup>9</sup> decoding
- Dolby Atmos Height Virtualizer and DTS Virtual:X 3D processing
- Dolby Surround<sup>®</sup> and DTS® Neural:X 3D upmixing technologies
- Hi-Res Audio playback via network and USB including DSD256, DSD128, DSD64 (DSDIFF/DSF) and 192 kHz/24-bit FLAC, ALAC, WAV (RIFF), and AIFF<sup>9</sup>
- SACD (Super Audio CD) playback via HDMI (2.8 MHz 2-ch/multichannel)
- THX® listening modes for movies, music, and games
- Theater-Dimensional virtual surround-sound function
- Sound optimization for games (Rock, Sports, Action, and RPG)

- Works with Sonos for the Sonos Home Sound System with Sonos app<sup>10</sup>
- Works with Alexa supporting multi-room music<sup>11</sup>
- Works with Ok Google and Chromecast built-in
- Supports Apple AirPlay 2 enabling Siri voice control
- DTS Play-Fi multi-room audio via Onkyo Music Control App<sup>10</sup>
- Control and manage multiroom playback with Onkyo Controller app<sup>10</sup>
- Roon Tested certification for the Roon Core
- IP Control for setup via PC and integration into a home automation system

### CONNECTION FEATURES

- 6 HDMI inputs and 2 outputs (Main Out [eARC], Sub/Zone 2 Out)
- 2 digital audio inputs (optical and coaxial, assignable)
- 4 analog RCA audio inputs (assignable)
- 1 phono input with built-in MM phono equalizer
- 3.5 mm mic input for AccuEQ setup
- 6.35 mm headphone jack
- 2 subwoofer pre-outs
- Zone 2/Zone B analog RCA line-level out/Front L/R pre-out
- 7 speaker binding posts
- IOBASE-T/100BASE-TX Ethernet terminal for network connection
- USB inputs (front:DC 5V/500 mA, rear:DC 5 V/1 A) for audio playback
- AC inlet for detachable IEC power cord

### ADVANCED FEATURES

- AccuEQ Room Acoustic Calibration with AccuReflex and subwoofer EQ
- Bluetooth wireless technology supports audio reception from mobile devices and PC, audio transmission to supported headphones (RX mode: SBC/AAC, TX mode: SBC/aptX/aptX HD)
- Advanced Music Optimizer™ improves compressed audio playback quality
- Wake on Play standby for Bluetooth and Network with auto input-switching
- Vocal Enhancer boosts vocals/dialog audibility via remote control or front panel keys
- FM and DAB/AM tuner with 40 random station memory presets
- Zone 2 DAC for independent D/A audio distribution (HDMI/SPDIF/NET)

### AMPLIFIER FEATURES

- 175 W/Ch (6 Ω, 1 kHz, 10% THD, 1 channel driven), 165 W/Ch (6 Ω, 1 kHz, 1% THD, 1 channel driven, IEC)
- THX Certified Select
- Onkyo Dynamic Audio Amplification (DAA)

### NETWORK FEATURES

- SMART AV Receiver platform with integrated streaming services, voice assistant support, and control via remote apps
- Fast quad-core SoC supports 802.11ac (2x2 MIMO) Wi-Fi

- Zone 2 speaker outputs (shared with Height/Surround Back/Bi-amp) distribute powered D/A audio (including HDMI/SPDIF/NET\*) to passive speakers
- Zone 2 line-out\*\*12 connects compatible components for independent or synced D/A playback (including HDMI/SPDIF/NET\*)
- Zone B line-out\*\*12 connects compatible wireless headphone docks for synced playback with MAIN Zone
- Front L/R pre-outs\*\*12 support external power amp connection
- Switch from Front L/R speakers to Height/Surround/Surround Back speakers using Stereo Assign Mode\*\*13 for BGM listening
- My Input Volume one-touch startup volume assignment to individual inputs
- High-definition GUI with overlaid OSD over HDMI
- 4K to 8K, 1080p to 8K/4K video upscaling via HDMI
- OSD function shows source data and playback settings

- Crossover adjustment for each channel (40/50/60/70/80/90/100/120/150/180/200 Hz)
- A/V Sync Control (up to 500 ms in 5 ms steps at 48 kHz\*\*14)
- Various standby modes and HDMI pass-through
- 3-Mode display dimmer (Normal/Dim/Dimmer)

\*1 Requires a Sonos Connect or Port (sold separately). Connection of 1–2 Sonos devices is supported with volume control enabled via the Sonos app for iOS and Android™ devices. \*\*2 Amazon Music HD is supported via DTS Play-Fi. \*\*3 Streaming service availability may vary by region. An account and subscription may be required for some streaming services. \*\*4 Voice control requires an Alexa built-in or Google Assistant-enabled device, such as a smart speaker or smartphone. Interoperability with streaming services depends on the respective technology and the country or region. \*\*5 Some countries or regions have regulations that affect wireless signal strength and use of Wi-Fi channels. \*\*6 When set to Zone 2 mode, HDMI audio is available on inputs 1–3; SPDIF and HDMI support 2-ch PCM signals only, and

simultaneous playback of multiple audio sources is enabled. When set to Zone B mode, encoded and PCM audio playback for all inputs is enabled in MAIN and Zone B. \*\*7 Features defined in HDMI 2.1 specification, HDR10+, and passthrough capabilities described are supported on HDMI inputs 1–3, Main Out, and Sub/Zone 2 Out in Sub Mode output. \*\*8 DSC (Display Stream Compression) signals only. \*\*9 Supported sampling-rates may vary depending on network environment. DSD is converted to PCM upon playback. ALAC is supported to a maximum 96 kHz. \*\*10 Available free for iPhone and iPad at the App Store. Available free for Android devices on Google Play. Please check device and OS requirements before installation. \*\*11 Multi-room music may require a firmware update. \*\*12 Zone 2 line-out, Zone B line-out, and Front L/R pre-out are exclusive modes shared on the same analog RCA output. \*\*13 Speaker-switching capabilities depend on the speaker layout. \*\*14 Max. 400 ms (5 ms steps) at 96 kHz, and max. 200 ms (5 ms steps) at 192 kHz.

# TX-NR6100 7.2-Channel THX Certified Network A/V Receiver

## THX® Certified Select cinema-reference sound

THX Certified Select guarantees the same reference volume and sound quality of a commercial cinema in rooms where the screen-to-seat distance is about 3.5 m. THX® certified receivers must pass 2,000 bench-tests in 75 categories.



with Dolby Surround® or DTS® Neural:X upmixers to create a 3D sound-field with any audio signal. Welcome to the 8K Ultra HD experience (excluding Dolby Atmos, DTS:X, and Features defined in HDMI\*\* 2.1 specification enable 8K/60p DTS® Express). video passthrough to your compatible display. As well as HDR10 and HLG, HDR10+ and Dolby Vision™ formats optimize brightness, contrast, and color scene-by-scene or frame-by-frame. All HDMI terminals support HDCP 2.3, while eARC on Main Out passes encoded multichannel audio (including Dolby Atmos® or DTS:X™) from your compatible TV's tuner, video streaming apps, or connected media players to the AVR for amplification. QMS (Quick Media Switching) for

movies and video eliminates the delay that can result in a blank

Front W (3 Ω, Front) screen before content is displayed. 120 W (8 Ω, Front)

Note: 8K video passthrough is not supported on HDMI inputs 4–6 and Sub/Zone 2 Out.

## New enhancements for gamers

Transform your playtime with 3D surround-sound and gain

the winning edge with new gamer-friendly features defined in 2.1. VRR (Variable Refresh Rate) eliminates lag, stutter, fluid gameplay. ALLM (Auto Low Latency

Detects speaker size, crossover frequency, and distance from

Mode) optimizes latency from source to screen while QFT the listening position and sets appropriate sound-pressure (Quick Frame Transport) limits lag for a smoother experience.

levels. Sets crossover and EQs all

SMART AV Receiver™ multi-

sound through Dolby SMART AV

phase differences in

around your home. It includes Amazon directional and non-directional sound-paths. The result is a

Music HD\*, Spotify®, TIDAL, Deezer, clear and cohesive sound-field.

and Tuneln, and works with Ok Google Bi-directional Bluetooth® wireless technology

or Alexa. Share entertainment via Works with Sonos, AirPlay

2, DTS Play-Fi®, and Chromecast built-in.

\* Amazon Music HD is supported via DTS Play-Fi.

Works with Sonos

Expand your Sonos Home Sound System by pairing this AVR Note: supports MAIN Zone source transmission (excludes Chromecast built-in and Power consumption (operating) 570 W to a

Sonos Connect or Port\*. The receiver ties into the Sonos Works with Alexa). Lossless 24-bit audio requires headphones supporting aptX HD.

ecosystem, waking, changing inputs, and playing at the desired

volume on command from the Sonos app\*.

\* Sonos Connect and Port sold separately. Sonos app available free for iPhone and iPad from the App Store, and for Android™ devices on Google Play.

Zone 2 outputs for powered multi-room audio

Height/Surround Back/Bi-amp speaker posts can be configured

for Powered Zone 2 audio distribution in addition to a 5.2-ch

## Dolby Atmos and DTS:X

– celebrate a new world of sound

Dolby Atmos and DTS:X translate 3D soundtracks from the studio mixing desk to your living room. Sounds are no longer tied to specific channels, and are free to move around and above your audience, placing them at the heart of the action.

layout. Ideal for ambient background listening.

Enjoy legacy formats with 3D sound

Dolby Atmos Height Virtualizer and DTS

Virtual:X deliver 3D sound through any

listener-level speaker layout. The

technologies can work independently or

802.11ac standard\*

A powerful quad-core SoC (System on a

Chip) performs multiple processing tasks

at once. It evolves network functions and supports the

802.11ac (2x2 MIMO) standard for stable multi-room audio

streaming.

\* Note: some countries or regions have regulations that affect wireless signal strength and the use of Wi-Fi channels. Dynamic power

210240 W (4 Ω,

Front W (3 Ω, Front) screen before content is displayed. 120 W (8 Ω, Front)

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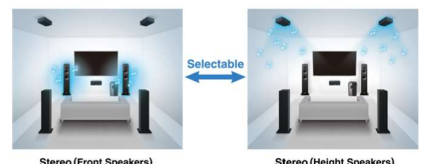
Note: in Zone 2 mode, HDMI audio is available on inputs 1–3 and SPDIF and HDMI support 2-ch PCM signals only. In Zone B mode, encoded and 2-ch PCM audio (all inputs) is enabled in MAIN and Zone B.

## Relax with Stereo Assign Mode

Stereo Assign Mode switches playback from Front to

Height,

Surround, or Surround Back speakers depending on your



## SPECIFICATIONS

### Amplifier Section

Power output (All channels)	175 W/Ch (6 Ω, 1 kHz, 10% THD, 1-ch driven)
	165 W/Ch (6 Ω, 1 kHz, 1% THD, 1-ch driven, IEC)
Dynamic power	210240 W (4 Ω,

THD+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, half power)
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Input sensitivity and impedance	200 mV rms/47 kΩ (Line) 3.5 mV rms/47 kΩ (Phono MM)
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Rated RCA output level and impedance	1 V rms/470 Ω (Subwoofer pre-out) 200 mV rms/2.2 kΩ (Zone 2/Zone B line-out)
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Frequency response	10 Hz–100 kHz/+1 dB, -3 dB (Direct Mode)
Tone control	±10 dB, 20 Hz (Bass) ±10 dB, 20 kHz (Treble)

Signal-to-noise ratio	106 dB (Line, IHF-A) 80 dB (Phono, IHF-A)
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Speaker impedance	4–16 Ω
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### Tuner Section

DAB (Europe)	174.928 MHz–239.2 MHz
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FM AM (Asia & Oceania)	87.5522 kHz–1.611 kHz MHz–108 MHz 530 kHz–1,710 kHz
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DAB/FM/AM preset memory	40 stations
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Power consumption (idle)	65 W
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Power consumption (standby)	0.15 W
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Dimensions (W x H x D)	435 x 173.5 x 379.5 mm
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Weight	9.8 kg
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Chromecast built-in™ works with Ok Google

Stream music from your smartphone, laptop, or PC to the

receiver via Chromecast built-in and control playback from apps from iPhone, iPad, Android™ phone

or tablet, Mac or Windows® PC, or Chromebook™. Cue, play, and control audio just by using your voice.  
microphone • Quick Start Guide • Remote controller

Alexa lets you use your voice to control the A/V receiver by speaking commands through an Alexa built-in device. Whether you want to listen to music, radio stations, or podcasts, all you have to do is ask. It also supports multi-room music\* played on multiple devices.

\* Multi-room music may require a firmware update.

layout. Sync one source or play two sources (including analog, HDMI, SPDIF, and NET) in both rooms simultaneously.

Multi-function Zone 2 or Zone B line-out

Analog RCA line-out terminal is served by a Zone 2

Zone 2 supports active speaker or hi-fi system connection. Sync a source in MAIN and Zone 2, or play two unique sources simultaneously. Zone B suits wireless headphone docks. Enjoy MAIN Zone audio source through your wireless headphones. This terminal also supports Front L/R pre-out to an external hi-fi power amplifier.

CARTON

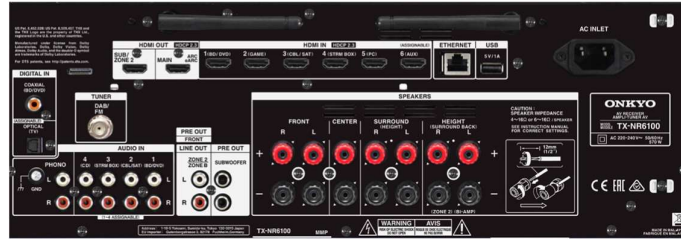
Dimensions (W x H x D) 534 x 265 x 468 mm

Weight 12.5 kg Chromecast-enabled

Supplied Accessories

- Power cord • Indoor DAB/FM antenna • AM loop antenna • Speaker setup

Works with Alexa D/A converter and supports two Zone audio modes: • AAA (R03) batteries x 2



Text on receiver may vary with region.

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