

TX-NR676E 7.2-Channel Network A/V Receiver



Silken Power from an Amp with the Lot

Drive a full-scale surround system with effortless clarity. This thoroughbred A/V receiver streamlines access to app-based music, on-demand TV, games, and more. Linking your 4KTV and up to seven media players over HDMI®, the TX-NR676E processes all the popular Hi-Res and object-based audio codecs while Dynamic Audio Amplification boosts sound flawlessly for an adrenalin-pumping cinema experience. Future-focused, the receiver plays almost any audio accessible to your mobile or PC over dual-band Wi-Fi®, and comes with Chromecast built-in³ and DTS Play-Fi[®], which make mirroring music a one-tap operation. You can share network content, analog audio from your Blu-ray Disc player, turntable, and more to supported network multi-room speakers home over FireConnect™ powered by Blackfire. It's a receiver with the lot, and one of the best sounding amps available. * Future firmware update required.

HIGHLIGHTS

- Supports 5.2.2-Channel Dolby Atmos[®] and DTS:X™ Playback
- 165 W per Channel
- HDMI 7 In (1 Front¹) / Main Out, and Sub Out² Supporting 4K/60 Hz, HDR10, Dolby Vision™, BT.2020, and HDCP 2.2 Pass-through
- Dynamic Audio Amplification with 4-Ohm Speaker-driving Capability
- 384 kHz/32-bit DAC and VLSC™ Filtering for Superior Clarity
- Ready for Chromecast built-in³ and DTS Play-Fi³
- Dual-band Wi-Fi, AirPlay, Spotify®, TIDAL, Deezer, Pandora®, TuneIn⁴
- FireConnect™⁵ Wireless Multi-room Audio

ADVANCED FEATURES

- HDMI Terminals Supporting HDR10, Dolby Vision™, BT.2020, and 4K/60 Hz Pass-through and HDCP 2.2
- Supports 5.2.2-Channel Dolby Atmos Playback and Dolby Surround Upmixing
- DTS:X Object-based Audio Reproduction and DTS Neural:X™ 3D Upmixing
- Dolby Surround 3D Upmixing Solution for Multichannel Surround Formats
- AccuEQ Room Acoustic Calibration with AccuReflex Phase Alignment for Dolby Atmos-enabled Speakers
- Ready for Onkyo Controller App Integrated Multi-room Intuitive Operation⁶
- Stable Dual-band 5 GHz/2.4 GHz Wi-Fi[®] Connectivity
- Features Chromecast built-in Wireless Audio Streaming Technology
- DTS Play-Fi Shares Music from Apps to Receiver and Wireless Speakers
- AirPlay Audio Streaming from iTunes and iPad, iPhone, and iPod touch
- Supports Hi-Res Audio Including DSD 5.6 MHz/2.8 MHz⁷, 192 kHz/24-bit FLAC, WAV, AIFF, and ALAC, and Dolby® TrueHD⁸

- Supports Spotify, TIDAL, TuneIn, Pandora, and Deezer Services
- FireConnect™ Multi-room Distribution of Network and Analog Audio Sources⁹ to Compatible Wireless Speakers
- Powered Zone 2 Speaker Outputs and Zone 2 Line Output with Dedicated DAC Supporting Digital¹⁰ and Analog Audio Playback
- Bluetooth® Wireless Technology for Mobiles, Laptops, and PCs (Version 4.1 + LE, Profile: A2DP v1.2, AVRCP v1.3)
- Advanced Music Optimizer Improves Compressed Digital Audio Quality, Including Bluetooth Audio
- Supports for Front L/R Channel Bi-Amping in 5.2-Ch Speaker Layout
- 480i De-interlacing (480i to 480p) via HDMI for Legacy Video Formats

AMPLIFIER FEATURES

- 165 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
- Dynamic Audio Amplification System Delivers Thrilling Stereo and Multichannel Performance
- High-current Power to Drive Large Speakers with 4-Ohm Resistance
- H.C.P.S. (High Current Power Supply) Transformer
- VLSC (Vector Linear Shaping Circuitry) High-frequency Noise Removal (Front L/R Channels)
- Non-Phase-Shift Amplification Circuitry for Clarity and Detail
- Discrete Output Stage Circuitry for Low Distortion

PROCESSING FEATURES

- Dolby Atmos and DTS:X Reproduction (5.2.2 Channels)
- HDMI Support for 4K/60 Hz, HDR10, Dolby Vision, 3D, Audio Return Channel, DeepColor™, x.v.Color™, LipSync, Dolby Atmos, Dolby TrueHD, DTS:X, DTS-HD Master Audio™, DSD, DVD-Audio, Super Audio CD (SACD), Multichannel PCM, and CEC
- High-grade AKM (AK4458) 384 kHz/32-bit Multichannel DAC
- PLL (Phase Locked Loop) Jitter-Cleaning Circuit Technology for S/PDIF Audio
- 32-bit Digital Signal Processing
- DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Theater-Dimensional Virtual Surround Function
- Enjoy Pristine Reproduction of Audio-only Sources in Pure Audio Mode

- Direct Mode for Audio Reproduction Close to Original Source Quality
- Tone Controls (Bass/Treble) for Front L/R Channels

CONNECTION FEATURES

- 7 HDMI Inputs (1 Front) and 2 Outputs (1 Main Out, 1 Sub Out)
- Powered USB Port (5 V, 1 A) for Audio Playback
- 2 Composite Video Inputs
- 2 Component Video Inputs
- 3 Digital Audio Inputs (2 Optical and 1 Coaxial)
- 6 Analog Audio Inputs (6 Coaxial), 1 Stereo Analog Input (3.5 mm, Front)
- Phono Input (MM) and Equalizer for Turntable
- 2 Subwoofer Pre-Outs
- Headphone Jack (6.35 mm, Front)
- Speaker Posts with Screw Knobs
- Speaker Setup Mic Input (Front)

OTHER FEATURES

- 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)
- Graphical User Interface with Overlaid On-Screen Display (OSD) via HDMI
- Quick Setup Guide via GUI and Easy Connection Diagram on Rear Panel
- Large Input Selector Buttons
- Economical HDMI Pass-through and Network Standby Functions
- IP Control via LAN for Home Automation Systems
- 3-Mode Display Dimmer (Normal/Dim/Dimmer)
- 40 FM/AM Random Presets
- Full-sized Simple Remote Control

¹ HDMI Front Input does not support HDCP 2.2, 4K/60p video, HDR10, Dolby Vision, or BT.2020. ² HDMI Sub Out does not support ARC or CEC. ³ Requires a future firmware update. ⁴ Availability of services may vary with region. Please confirm before purchase. Subscription may also be required. Pandora is available in Australia and New Zealand only. ⁵ FireConnect™ is a technology based on Blackfire provided by Blackfire Research Corp. USA. Sampling rates of 44.1 kHz and 48 kHz are supported. ⁶ For iOS and Android™ devices. Please check App Store or Google Play™ for device and OS requirements. ⁷ DSD not supported over wireless LAN. ⁸ Dolby TrueHD playback via USB input only. ⁹ Sharing audio from external analog inputs depends on the model and is enabled with a future firmware update. ¹⁰ Audio via HDMI inputs excluded.

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Unlock Dolby Atmos® and DTS:X™ Playback

Object-based soundtracks allow independently mixed sound to play through any speaker in your system. Effects move all around as they do in real life, so you experience 5.2.2-channel Dolby Atmos or DTS:X formats as the director intended. DTS Neural:X™ identifies spatial effects in multichannel soundtracks and upmixes for 3D playback, while DTS:X offers independent dialog volume control for movies. Dolby Surround is also included to upmix legacy multichannel formats for playback in a Dolby Atmos-enabled environment.



Onkyo Controller Supports Next Generation Network Audio

Onkyo Controller app collects streaming services and network-attached audio into an intuitive interface. Control playback, navigate internet services, and distribute audio all over the home with ease.



Music Made Easy with Chromecast built-in*

Stream any music from your smartphone, laptop, or PC to the TX-NR676E with ease. Control playback with Chromecast-enabled apps you know and love from your iPhone, iPad, Android™ phone or tablet, Mac® or Windows® laptop, or Chromebook™.



Stream Anything with DTS Play-Fi®

DTS Play-Fi is a wireless protocol that works with any audio app on mobiles and PC. Flick whatever's playing to the receiver, even different sources to different components at the same time.



Wi-Fi®, AirPlay, Spotify®, and Bluetooth®

Selectable 5 GHz/2.4 GHz Wi-Fi assures stable connectivity so you can enjoy smooth streaming over AirPlay, the Spotify app, and the local network. Bluetooth wireless technology also provides quick and simple wireless streaming from your choice of music application.



Internet Radio and Streaming Services

TIDAL, Deezer, and TuneIn are baked into the GUI, making it easy to select from a huge range of music and radio programs using Onkyo Controller.



FireConnect™ Wireless Multi-room Audio

FireConnect™ mirrors network audio and external analog sources connected to a master component—from streaming services to vinyl records—on FireConnect™-compatible speakers in other rooms. Music selection, speaker grouping, and playback management across the home are built into Onkyo Controller app for iOS and Android™.



Note: Sharing audio from external inputs depends on the model and is enabled with a future firmware update. Sampling rates of 44.1 kHz and 48 kHz are supported. FireConnect™ is a technology based on Blackfire provided by Blackfire Research Corp., USA.

4K HDR, BT.2020, 4K/60 Hz, and HDCP 2.2 Support

Six rear HDMI® inputs support pass-through of 4K HDR in both HDR10 and Dolby Vision™ formats; the BT.2020 4K Video Standard, 4K/60 Hz video playback; and HDCP 2.2 for premium content. Further, front HDMI is available for easy connection of a video camera or game console, while a rear Sub Output is ideal for connecting a projector.



Powerful Amplification for Dynamic Sound

High current power is proven by the ability to drive four-ohm speaker loads, which will severely test the strongest multichannel amplifier. Heaps of muscle means superior control for improved clarity and transient response, restoring energy to stereo and multichannel sound. Further, VLSC™ eliminates pulse-noise for optimal playback of high-quality stereo sources.

Graphical User Interface with Easy Setup

With your speakers and media players connected, plug in the AccuEQ mic and let the GUI guide you through initial setup, from speaker calibration (including AccuReflex phase correction for Dolby Atmos-enabled speakers) through to network connection. The refined interface makes control simple and enjoyable.

Powered Zone 2 and Zone 2 Lineouts

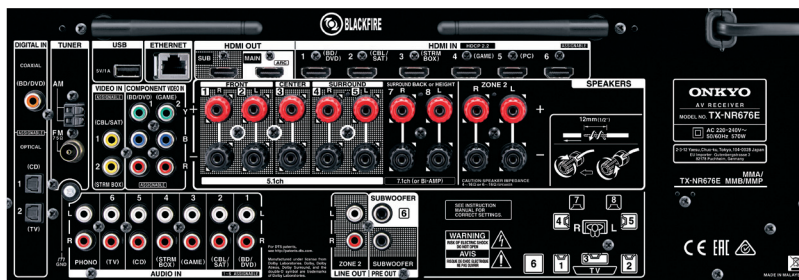
Powered Zone 2 speaker outputs let you send amplified network, S/PDIF, or analog audio sourced to a pair of speakers in another room. Line outputs can connect your home cinema sources to a separate hi-fi system. Manage playback using Onkyo Controller.

* Requires a future firmware update.

SPECIFICATIONS

Amplifier Section

Power Output	
All Channels	165 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
Dynamic Power	240 W (3 Ω, Front) 210 W (4 Ω, Front) 120 W (8 Ω, Front)
THD+N (Total Harmonic Distortion + Noise)	0.08% (20 Hz–20 kHz, Half Power)
Damping Factor	Less than 54 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	200 mV/47 kΩ (Line) 3.5 mV/47 kΩ (Phono)
Rated RCA Output Level and Impedance	1 V/470 Ω (Subwoofer Pre Out) 200 mV/23 kΩ (Zone Line Out)
Tone Control	±10 dB, 90 Hz (Bass) ±10 dB, 7.5 kHz (Treble)
Signal-to-Noise Ratio	106 dB (Line, IHF-A) 80 dB (Phono, IHF-A)
Speaker Impedance	4 Ω–16 Ω
Video Section	
Input Sensitivity/Output Level and Impedance	Video 1.0 Vp-p/75 Ω (Component Y) 0.7 Vp-p/75 Ω (Component Pb/Cb, Pr/Cr) 1.0 Vp-p/75 Ω (Composite)
Tuner Section	
Tuning Frequency Range	FM 87.5 MHz–108 MHz AM 522 kHz–1,611 kHz 530 kHz–1,710 kHz
FM/AM Preset Memory	40 Stations
General	
Power Supply	AC 220–240 V~, 50/60 Hz
Power Consumption	570 W
No-Sound Power Consumption	60 W
Standby Power Consumption	0.15 W
Dimensions (W x H x D)	435 x 173.5 x 378 mm
Weight	10.0 kg
CARTON	
Dimensions (W x H x D)	539 x 260 x 450 mm
Weight	12.5 kg
Supplied Accessories	<ul style="list-style-type: none"> • Indoor FM antenna • AM loop antenna • Speaker setup microphone • Quick Start Guide • Basic Manual • Remote controller • AAA (R03) batteries x 2



Text on receiver may vary by region.

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