

BLACK

TX-RZ820 7.2-Channel Network A/V Receiver



















































Monumental Sound & Vision Delivered Without Comprise

Upgrades to the TX-RZ820 Network A/V Receiver—our THX® Certified Select™ 7.2-channel flagship—result in genuinely spectacular sonic performance. Dynamic Audio Amplification delivers instantaneous high-current power to full-scale speakers for thrilling energy and lifelike transient response across a wide 5 Hz-100 kHz spectrum. VLSC™ on all channels and non-phase-shift circuitry clarify details floating in three-dimensional space. Multi-room network and analog audio, including streaming over Chromecast built-in* and DTS Play-Fi®*, are served to NCP-302 wireless speakers via FireConnect™ powered by Blackfire. Powered and pre-/line audio distribution adds app-controllable audio in up to three zones simultaneously. Decoding Dolby Atmos® and DTS:X[™], the receiver also supports Dolby Vision™, HDR10, HLG (Hybrid Log-Gamma), and BT.2020 video pass-through, and is set up for custom installs. Simply, it's the no-compromises 7.2-channel powerhouse you've been waiting for. * Enabled with a future firmware update.

HIGHLIGHTS

- THX $^{\otimes}$ Certified Select $^{^{\text{\tiny{M}}}}$ Reference Sound
- Dynamic Audio Amplification with 180 W/Ch, 5 Hz–100 kHz Frequency Response, and VLSC $^{\mbox{\tiny{M}}}$ On All Channels
- Supports 5.2.2-Channel Dolby Atmos® and DTS:X™ Playback
- 7 HDMI® Inputs (I Front*) / Main Out/Zone 2 Out Supporting Dolby Vision™, HDR10, HLG, and 4K/60p Pass-through and HDCP 2.2
- Ready for Chromecast built-in*2 and DTS Play-Fi®*2
- 5 GHz/2.4 GHz Wi-Fi®, AirPlay, Spotify®, TIDAL, Deezer,
- FireConnect^{™05} Wireless Multi-room Audio, Powered Zone 2, Zone 2/3 Pre-/Line Outs, and 7.2-Channel Pre-Outs

ADVANCED FEATURES

- THX Certified Select for Cinema-Reference Volume and Sound Quality HDMI Terminals Supporting Dolby Vision, HDR10, HLG, BT.2020, 4K/60 Hz Pass-through, and HDCP 2.2
- Zone 2 HDMI (4K/60 Hz/HDCP 2.2) for Distributed Video Supports 5.2.2-Channel Dolby Atmos Playback and Dolby
- Surround Upmixing

 DTS:X Object-based Audio Reproduction and DTS Neural:X™
 Upmixing for Legacy Soundtracks
- AccuEQ Room Acoustic Calibration with AccuReflex Phase Alignment for Dolby Atmos-enabled Speakers
- Ready for Onkyo Controller App Integrated Multi-room Intuitive Operation*
- 5 GHz/2.4 GHz Wi-Fi for Stable Network Connection
- Features Chromecast built-in Wireless Audio Streaming Platform
 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 Direct DSD 11.2 MHz^{k7},
 DSD 5.6 MHz/2.8 MHz^{k7}, 192 kHz/24-bit FLAC, WAV, AIFF, and ALAC, and Dolby® TrueHD*
- Supports Spotify, TIDAL, Tuneln, Pandora, and Deezer Services
- FireConnect[™] Multi-room Network and Analog Audio Distribution to Supported Wireless Speakers^{*9}

- Powered Zone 2 Speaker Outputs and Zone 2/3 Pre-/Line Output with Dedicated DAC Supporting Network, S/PDIF, HDMI, and Analog Audio*10
- 7.2-Channel Pre-Outs, 12 V Trigger-Out, and IR Input
- Bluetooth® Wireless Technology for Mobiles, Laptops, and PCs (Version 4.1 + LE, Profile: A2DP v1.2, AVRCP v1.3)
- Supports Front L/R Channel Bi-Amping in 5.2-Ch Speaker Layout
- Advanced Music Optimizer Improves Compressed Digital Audio Quality, Including Bluetooth Audio
- 480i De-interlacing (480i to 480p) for Legacy Video Formats

AMPLIFIER FEATURES

- 180 W/Ch (6 Ω, I kHz, I% THD, I Channel Driven, IEC)
- Dynamic Audio Amplification System with 5 Hz-100 kHz Frequency
- Response
 H.C.P.S. (High Current Power Supply) El Transformer
- VLSC® (Vector Linear Shaping Circuitry) Noise-filtering Technology for All Channels
- Optimum Gain Volume Circuitry
- 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, HLG, Dolby Vision, 3D, Audio Return Channel (ARC), DeepColor", xx.Color", LipSync, Dolby Atmos, Dolby TrueHD, DTS:X, DTS-HD Master Audio", DSD, DVD-Audio, Super Audio CD (SACD), Multichannel PCM, and CEC
- 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
- THX Listening Modes for Movies, Music, and Games
- DSP Modes for Gaming: Rock, Sports, Action, and RPG
- Theater-Dimensional Virtual Surround Function
- Direct Mode for Audio Reproduction Close to Original Source Quality Front L/R Tone Controls (Bass/Treble) and Independent Zone 2 and Zone 3 Tone, Balance, and Volume Controls

CONNECTION FEATURES

- 7 HDMI Inputs (6 Rear, I Front), Main Out, and Zone 2 Output
- Powered USB Port (5 V, I A) for Audio Playback

- 2 Composite Video Inputs
- 2 Component Video Inputs
- 3 Digital Audio Inputs (2 Optical and I Coaxial)
- 6 Analog Audio Inputs
 Phono Input (MM) and Equalizer for Turntable
- 7.2-Channel Pre-Outs
- 2 Subwoofer Pre-Outs
- LAN Input with IP Control Support for Home Automation Systems and Setup via a Connected PC
- RS-232 Serial Input for External Control Commands
- 12 V Trigger Out (Main, 100 mA) for External Component
- Control Integration
- IR Input for Remote Control 6.35 mm Headphone lack (Front)
- 3.5 mm Speaker Setup Mic Input and Microphone

OTHER FEATURES

- · Aluminum Front Panel, Volume Control, and Flap Door
- 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
- Economical HDMI Pass-through and Network Standby Functions
- 3-Mode Display Dimmer (Normal/Dim/Dimmer) · 40 FM/RDS and AM Random Presets
- Rack-mounting Kit (Optional)
- Full-sized Simple Remote Control
- ** IHDMI Front Input does not support «K/60p/4-4-4/2-4-bit video, HDR (0, Dolby Vision, HLIG, or BT 2020. **2 Requires a future firmware update. **3 Prodova ovalidoble in Australia and New Zealand only, **4 Availability of services may vary with region. Please confirm before purchase. Subscription may also be required. **5 FireConnect** so a technology based on Blockfire provided by Blockfire Research Corp. USA. Sampling rates of 4-11 kHz and 4-8 kHz are supported. **6 For I/S and Androdi** devices Places check App Store or Google Porly* for device and OS requirements. **7 DSD not supported over wireless LAN. **8 Dolby Truel-ID playbock via USB input only. **9 Sharing audo form external analog inputs deepends on the model and is enabled with a future firmware update. **10 Audio distribution via SIPDIF or HDMI not supported in Zone 3.

TX-RZ820 7.2-Channel Network A/V Receiver

Introducing the RZ Series

Our premium RZ Series AVV receivers deliver a significant boost to the dynamism, detail, and accuracy of music and movie soundtracks for a listening experience that packs deep emotional impact. The

TX-RZ820 features quality components, such as large custom capacitors, to provide high instantaneous current for fast transients and wideband frequency response down to 5 Hz. Discrete non-phase-shift amp circuits clearly focus the audio image and cut distortion even at floor-shaking volumes.



THX® Certified Select™ Reference Sound

THX Certified Select guarantees the same high-volume sound you experience at a commercial cinema in your home. To gain certification, amplifiers must pass the industry's most severe bench-tests covering every aspect of audio performance. THX Certified Select components are ideally suited to rooms where the screento-seat viewing distance is approximately 3 meters, and the room volume is approximately 57 cubic meters.





Unleash Dolby Atmos® or DTS:X™ Home Cinema

Object-based soundtracks allow independently mixed sound to play through any speaker in your system, moving above and around you vith breathtaking realism. The TX-RZ820 reproduces 5.2.2-channel

Dolby Atmos or DTS:X formats, with AccuReflex correcting the phase of direct and indirect sounds for cohesive audio imaging with Dolby Atmos-enabled speakers





Upmixing Solutions for Legacy Soundtracks

DTS Neural:X™ identifies spatial effects in multichannel soundtracks and upmixes for 3D playback through object-audio-ready speaker systems. Dolby Surround also upmixes legacy sound formats so you can experience multidimensional playback of legacy sound formats in a Dolby Atmos environment.

Music Made Easy with Chromecast built-in

Stream any music from your smartphone, laptop, or PC to the TX-RZ820 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 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



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.

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

Selectable 5 GHz/2.4 GHz Wi-Fi® assures a stable connection so you can stream over AirPlay, the Spotify app, and the local network. Bluetooth wireless technology provides simple streaming from your choice of app.

Internet Radio and Streaming Services

TIDAL, Deezer, Pandora®, and Tuneln are on board to make selecting from a massive range of music and radio programs using Onkyo Controller very simple.

Note: Pandora is available in Australia and New Zealand only

Supports HDR10, HLG, Dolby Vision™, BT.2020, 4K/60 Hz, and HDCP 2.2

Six rear HDMI® inputs, Main Out, and Zone 2 Out support pass-through of HDR10, HLG (Hybrid Log-Gamma), and Dolby Vision; the BT.2020 4K video standard; 4K/60 Hz video playback; and HDCP 2.2 for premium video content, Front HDMI terminal is ideal for video camera connection, while the Zone 2 output distributes home cinema video to a display in a second room.



Wide Connectivity for Custom Setups

With 7.2-channel pre-outs, 12 V trigger, IR input, and optional rackmount kit, the TX-RZ820 easily integrates other components (such as outboard amps) to create a full wired multi-room setup thanks

to Powered Zone 2 and Zone 2/3 Pre-/Line Outputs governed by a Whole Home Audio Mode and supported within Onkyo Controller RS-232 and IP Control via LAN are ready for home automation systems



Amplifier Section	
Power Output	
All Channels	180 W/Ch (6 Ω, 1 kHz, 1% THD, 1 Channel Driven, IEC)
Dynamic Power	300 W (3 Ω, Front) 250 W (4 Ω, Front) 150 W (8 Ω, Front)
THD+N (Total Harmonic	Distortion + Noise)

0.08% (20 Hz-20 kHz, Half Power)

Input Sensitivity and Impedance 200 mV/47 k Ω (Line) 3.5 mV/47 k Ω (Phono)

Rated RCA Output Level and Impedance
I V/320 Ω (Pre Out)
I V/470 Ω (Subwoofer Pre Out)
I V/23 Ω (Zone2/3 Pre Out)
200 mV/2.3 kΩ (Zone2/3 Line Out) Frequency Response 5 Hz–100 kHz/+1 dB, -3 dB (Direct Mode) ±10 dB, 90 Hz (Bass) ±10 dB, 7.5 kHz (Treble) Tone Control Signal-to-Noise Ratio 106 dB (Line, IHF-A)

4 Ω–16 Ω

Speaker Impedance Video Section

Input Sensitivity/Output Level and Impedance

1.0 Vp–p/75 Ω (Component Y) 0.7 Vp–p/75 Ω (Component PB/CB, PR/CR) Video I.0 Vp-p/75 Ω (Composite)

Tuner Section Tuning Frequency Range

87 5 MHz_108 MHz 522 kHz-1,611 kHz 530 kHz-1,710 kHz ΔМ 40 Statio

General

FM/AM Preset Memory Power Supply 650 W Power Consumption No-Sound Power Consu

Standby Power Consumption

0.15 W **Dimensions (W x H x D)** 435 x 201.5 x 395 mm Weight

CARTON

Dimensions (W x H x D) $550 \times 303 \times 490$ mm

Supplied Accessories

- Power cord Indoor FM antenna AM loop antenna





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