

## Datasheet Audioserver

Part No: 100428



### About the product

The Audioserver was developed to realise a fully integrated audio experience for any building - in a simple, maintenance-free and energy-efficient way. It enables extensive automation and offers a simple and flexible system architecture thanks to its free scalability. We are redefining how you experience audio in your building.

- **Impressive sound** for all wired speakers
- **Highly efficient** thanks to a very low power consumption of just 2 watts when in standby
- **Smart functions included:** (Loud alarm, customised event sounds, Text-to-Speech)
- **Flexible expansion of the system**
- **Simple operation** via the personalised App interface or touch button

### Technical key points

- 4x Loudspeaker output 4 ... 8  $\Omega$
- 1x SPDIF out
- 1x Line In
- 1x Line Out
- 1x Tree Turbo for up to 10 Stereo Extensions
- DIN rail mounting (9TE)
- [To the Documentation >](#)



## Technical data

|                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Power supply</b>            | 18 ... 26VDC                                                                                                                                          |
| <b>Power consumption</b>       | typ. 2.16W(idle), max. 162.7W peak<br>min. 72W power supply unit recommended                                                                          |
| <b>Power loss at max. load</b> | 6.7W                                                                                                                                                  |
| <b>Outputs</b>                 | 4x Speaker out 4 ... 8Ω, sample rate: 44,1kHz<br>1x SPDIF out (digital, electrical), sample rate: 48kHz<br>1x Line-out (analog), sample rate: 44,1kHz |
| <b>Input</b>                   | 1x Line-in (analog) sample rate: 44,1kHz                                                                                                              |
| <b>Interfaces</b>              | Tree Turbo:<br>Connect up to 10 Stereo Extensions<br>up to 150m wire length LAN: 100Mbps, IPv4/IPv6, SSL<br>USB 2.0: Type A, max. 500mA               |
| <b>Ambient temperature</b>     | 0 ... 50°C / 32 ... 122°F                                                                                                                             |
| <b>Humidity</b>                | max. 95% r.H. (non condensing)                                                                                                                        |
| <b>Music Playback</b>          |                                                                                                                                                       |
| <b>Streaming</b>               | AirPlay 2, Spotify, TuneIn, internet streaming services, NAS                                                                                          |
| <b>External sources</b>        | Line-In (analog)                                                                                                                                      |
| <b>Compatible USB Drives</b>   | USB Sticks:<br>FAT32, single partition, max. 512GB<br>USB Harddrives:<br>FAT32/NTFS/EXT3/EXT4max. 1TB, max. 500mA                                     |
| <b>Audio - filetypes</b>       | MP3, AAC, ALAC, Flac, WMA, WMA lossless, WAV, M4A, OGG                                                                                                |
| <b>Sample rate</b>             | up to 192kHz                                                                                                                                          |

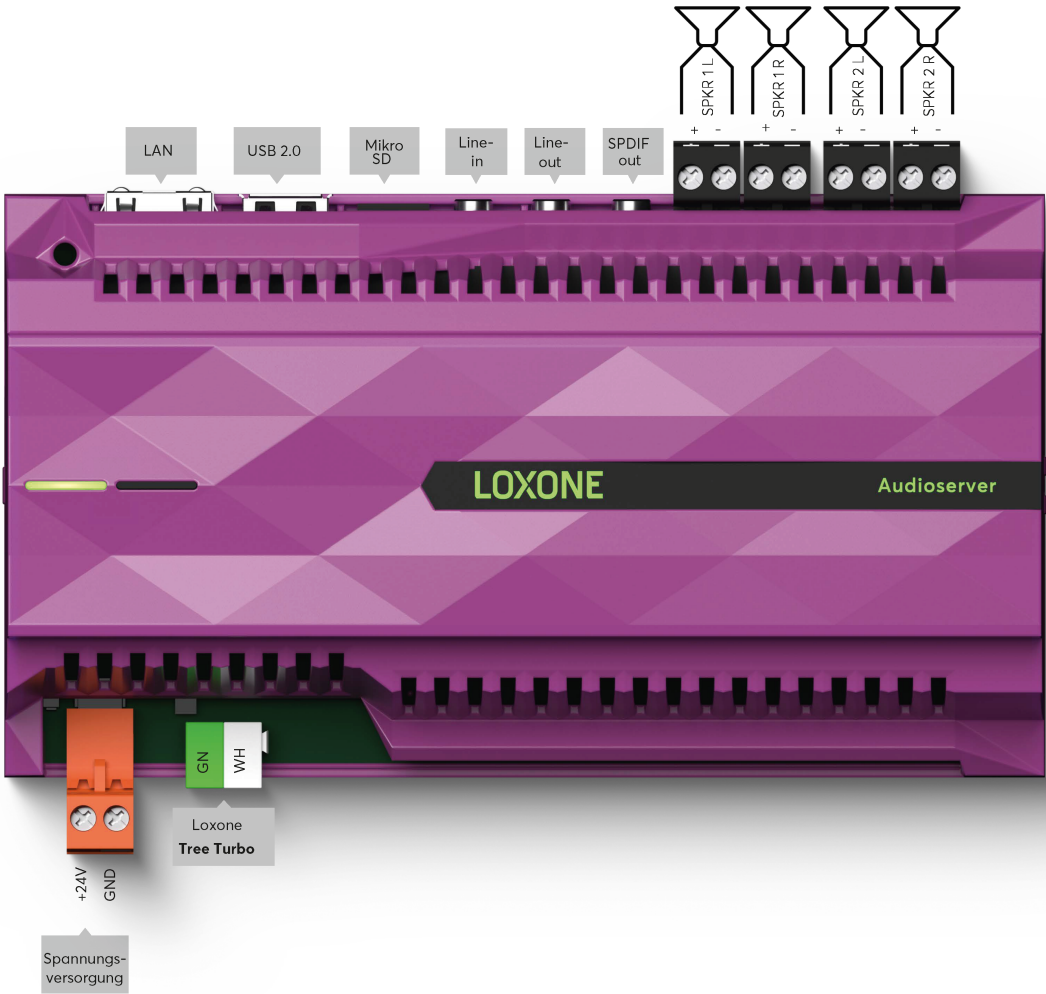
|                                      |                |
|--------------------------------------|----------------|
| <b>Amplifier</b>                     |                |
| <b>Type</b>                          | Class D        |
| <b>Allowed speaker impedance</b>     | 4 ... 8Ω       |
| <b>Frequency response</b>            | 20Hz ... 20kHz |
| <b>Max. peak power (per channel)</b> | 50W (x4)       |
| <b>Max. RMS power (per channel)</b>  | 18W (x4)       |

# Connections

|                           |                                                        |                                  |
|---------------------------|--------------------------------------------------------|----------------------------------|
|                           | Power supply, 4x speaker                               | Tree Turbo                       |
| Wire cross-section        | 1 ... 2.5mm² / AWG17 ... 12                            | 0.25 ... 0.8mm² / AWG23 ... 18   |
| Stripping Length          | 6 ... 7.5mm / 0.24 ... 0.30"                           | 5mm / 0.2"                       |
| Torque of Terminal Blocks | 0.5 ... 0.6Nm / 0.37 ... 0.44 lbf ft                   | -                                |
| Temperature Resistance    | min. 80°C / 176°F for IEC,min.<br>75°C / 167°F for UL, | -40 ... 105°C / -40 ...<br>221°F |

|                        |                              |  |
|------------------------|------------------------------|--|
|                        | Line-in, Line-out, SPDIF     |  |
| Type                   | 3.5mm/ 1/8" jack             |  |
| Temperature Resistance | -25 ... 85°C / -13 ... 185°F |  |

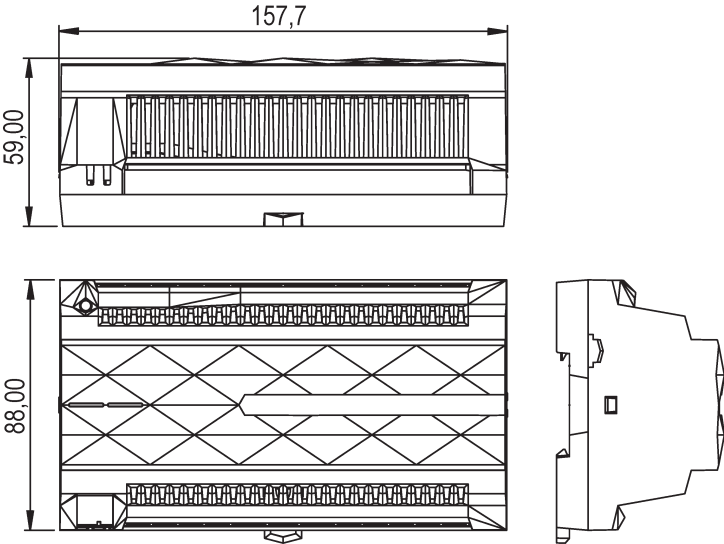
# Connection diagram



## Product features

|               |                                     |
|---------------|-------------------------------------|
| Mounting type | DIN rail according to EN50022, 35mm |
| Colours       | Purple: RAL 4006                    |
| Finish        | Matte                               |

## Weight & dimensions

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Net weight         | 225g                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Total weight       | 270g                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product dimensions | 157x88x57mm / 6.18x3.46x2.24" (LxWxH), 9 division units                                                                                                                                                                                                                                                                                                                                                                                                |
|                    |  <p>The technical drawings show the product from three perspectives: a front view with a width dimension of 157,7 mm, a side view with a height dimension of 59,00 mm, and a top view with a depth dimension of 88,00 mm. The top view also shows the internal structure with 9 division units. A side profile view is also shown to the right of the top view.</p> |
| Pack size          | 180x110x65mm / 7.08x4.33x2.56" (LxWxH)                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Certifications & Standards

|                |                                                                                                                                                              |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Safety Rating  | IP10                                                                                                                                                         |
| Certifications | <p>UL62368-1</p> <p>RECOGNIZED COMPONENT</p>  <p>IEC62368-1 Intertek</p> |

Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards. Apple and AirPlay are trademarks of Apple Inc., registered in the U.S. and other countries. Installation must be carried out by a qualified electrician in accordance with the relevant regulations.

## Datasheet

### Audioserver

Artikel Nr.: 100428



## Über das Produkt

Der Audioserver wurde entwickelt, um ein voll integriertes Audioerlebnis in jedem Gebäude einfach, wartungsfrei und energieeffizient zu realisieren. Er ermöglicht umfangreiche Automationen und bietet dank der freien Skalierbarkeit eine einfache und flexible Systemarchitektur. Wir definieren neu, wie Sie Audio in Ihrem Gebäude erleben.

- **Beeindruckender Sound** für alle kabelgebundene Lautsprecher
- **Hoch effizient** dank sehr geringem Stromverbrauch von nur 2 Watt im Ruhestand
- **Smarte Funktionen inklusive:** (Lautstarker Alarm, Individuelle Eventsounds, Text-to-Speech)
- **Flexibel erweiterbar**
- **Einfache Bedienung** via benutzerdefinierter App und Taster

### Technische Eckpunkte

- 4x Lautsprecher Ausgang 4 ... 8  $\Omega$
- 1x SPDIF out
- 1x LineIn
- 1x LineOut
- 1x Tree Turbo für bis zu 10 Stereo Extensions
- Hutschienenmontage (9TE)
- Zur Dokumentation >



## Technische Daten

|                                      |                                                                                                                                                              |  |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Spannungsversorgung</b>           | 18 ... 26VDC                                                                                                                                                 |  |
| <b>Leistungsaufnahme</b>             | typ. 2,16W(idle), max. 162,7W peak<br>min. 72W Netzteil empfohlen                                                                                            |  |
| <b>Verlustleistung bei max. Last</b> | 6,7W                                                                                                                                                         |  |
| <b>Ausgänge</b>                      | 4x Lautsprecher Ausgänge 4 ... 8Ω, Abtastrate: 44,1kHz<br>1x SPDIF out (digital, elektrisch), Abtastrate: 48kHz<br>1x Line-out (analog), Abtastrate: 44,1kHz |  |
| <b>Eingänge</b>                      | 1x Line-In (analog) Abtastrate: 44,1kHz                                                                                                                      |  |
| <b>Schnittstellen</b>                | Tree Turbo:<br>Verbindung mit bis zu 10 Stereo Extensions<br>bis zu 150m Leitungslänge LAN: 100Mbps, IPv4/IPv6, SSL<br>USB 2.0: Typ A, max. 500mA            |  |
| <b>Umgebungstemperatur</b>           | 0 ... 50°C / -32 ... 122°F                                                                                                                                   |  |
| <b>Luftfeuchtigkeit</b>              | max. 95% r.H. (nicht kondensierend)                                                                                                                          |  |
| <b>Musikwiedergabe</b>               |                                                                                                                                                              |  |
| <b>Streaming</b>                     | AirPlay 2, Spotify, TuneIn, Internet Streaming Dienste, NAS                                                                                                  |  |
| <b>Externe Quellen</b>               | Line-In (analog)                                                                                                                                             |  |
| <b>Kompatible USB Datenträger</b>    | USB Sticks:<br>FAT32, eine partition, max. 512GB<br>USB Festplatten:<br>FAT32/NTFS/EXT3/EXT4<br>max. 1TB, max. 500mA                                         |  |
| <b>Audio - Dateiformate</b>          | MP3, AAC, ALAC, Flac, WMA, WMA lossless, WAV, M4A, OGG                                                                                                       |  |
| <b>Sample rate</b>                   | bis zu 192kHz                                                                                                                                                |  |

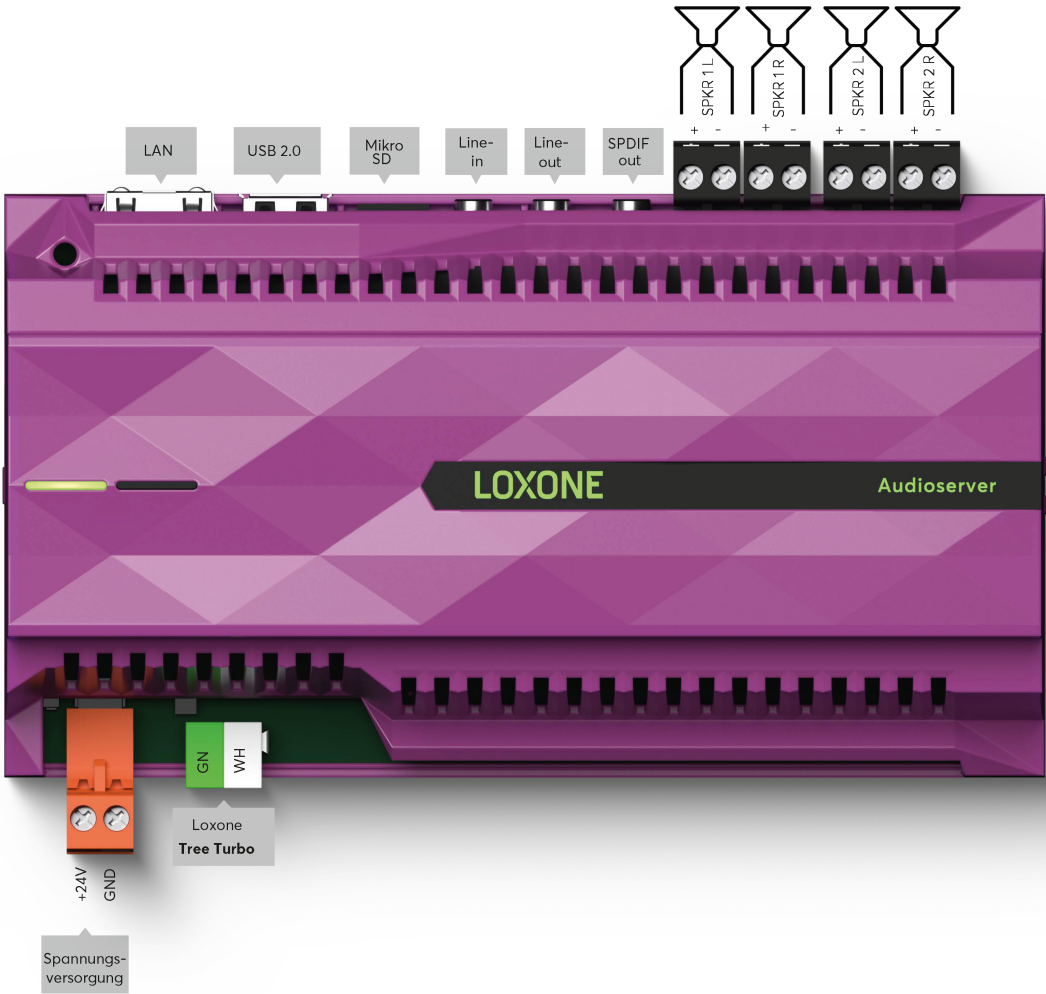
|                                         |                |  |
|-----------------------------------------|----------------|--|
| <b>Verstärker</b>                       |                |  |
| <b>Typ</b>                              | Klasse D       |  |
| <b>zulässige Lautsprecher Impedanz</b>  | 4 ... 8Ω       |  |
| <b>Frequenzbereich</b>                  | 20Hz ... 20kHz |  |
| <b>Max. Spitzenleistung (pro Kanal)</b> | 50W (x4)       |  |
| <b>Max. RMS-Leistung (pro Kanal)</b>    | 18W (x4)       |  |

# Anschlüsse

|                         |                                                    |                               |
|-------------------------|----------------------------------------------------|-------------------------------|
|                         | Spannungsversorgung                                | Tree Turbo                    |
| Leiterquerschnitt       | 1 ... 2,5mm² / AWG17 ... 12                        | 0,25 ... 0,8mm² / AWG23 ...18 |
| Abisolierlänge          | 6 ... 7,5mm / 0,24 ... 0,30"                       | 5mm / 0,2"                    |
| Drehmoment der Klemmen  | 0,5 ... 0,6Nm / 0,37 ... 0,44 lbf ft               | -                             |
| Temperaturbeständigkeit | min. 80°C / 176°F für IEC,min. 75°C / 167°F für UL | -40 ... 105°C / -40 ... 221°F |

|                         |                              |  |
|-------------------------|------------------------------|--|
|                         | Line-in, Line-out, SPDIF     |  |
| Typ                     | 3,5mm / 1/8" Buchse          |  |
| Temperaturbeständigkeit | -25 ... 85°C / -13 ... 185°F |  |

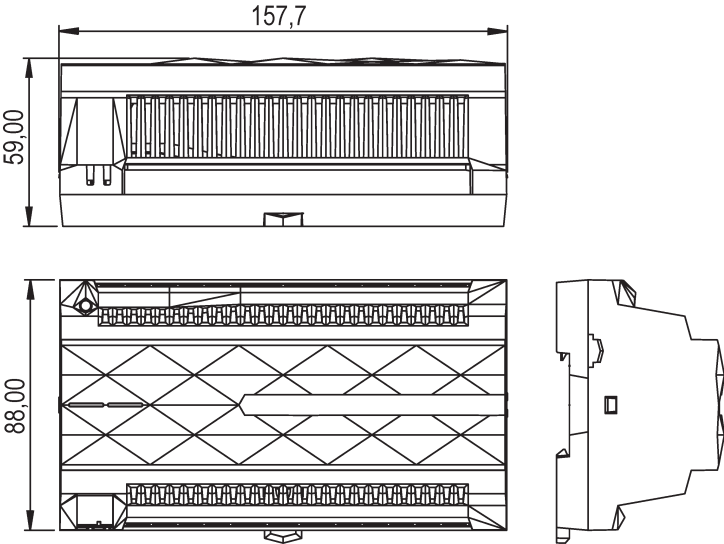
# Anschlussplan



# Produkteigenschaften

|            |                               |
|------------|-------------------------------|
| Montageart | Hutschiene nach EN50022, 35mm |
| Farbe      | Purpur: RAL 4006              |
| Glanzgrad  | Matt                          |

# Gewicht & Abmessungen

|               |                                                                                     |
|---------------|-------------------------------------------------------------------------------------|
| Nettogewicht  | 225g                                                                                |
| Bruttogewicht | 270g                                                                                |
| Produktmaße   | 158x88x59mm / 6,22x3,46x2,24" (LxBxH), 9 Teilungseinheiten                          |
|               |  |
| Packmaß       | 180x110x65mm / 7,08x4,33x2,56" (LxBxH)                                              |

# Zertifizierungen & Standards

|                  |                                                                                                                                                  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Schutzart        | IP10                                                                                                                                             |
| Zertifizierungen | UL62368-1<br>RECOGNIZED COMPONENT<br><br>IEC62368-1 Intertek |

Die Verwendung des Abzeichens "Works with Apple" bedeutet, dass ein Zubehörteil speziell für die Verwendung mit der in dem Abzeichen angegebenen Technologie entwickelt wurde und vom Entwickler für die Einhaltung der Apple-Leistungsstandards zertifiziert wurde. Apple und AirPlay sind Marken von Apple Inc. und in den USA und anderen Ländern eingetragen.

Veröffentlicht von  
**Loxone Electronics GmbH**  
Smart Home 1  
4154 Kollerschlag  
Austria  
Tel: +43 7287 7070-0  
[loxone.com](http://loxone.com)