

5.8GHz Ultra Low Latency Wireless Digital Audio

The Big Deal

- Operating in 5.8GHz band
- Ultra low latency
- 24 bit digital audio
- Combined receiver and charger
- Color display for battery-, audio level- and link quality status
- User friendly control knob
- RF reflection and interference cancelling by Triple Frequency Diversity Algorithm
- Two units can be mounted together in one 19" rack
- Jack and XLR output



Product Overview

stageClix' Jack Receiver is used together with the stageClix Jack Transmitter. This combination is unprecedented: it is the first (and only) low latency wireless digital audio system operating in the 5.8GHz-band. The main benefit over a common 2.4GHz-system is an interference free operation in combination with a uniquely low audio latency of < 3msec

Key Features

Feature	Advantages
Operation in 5.8GHz band	Worldwide licence free use No interference of equipment working in 2.4GHz-band
24 bit Digital Audio Transmission	Superior audio quality, no side effects of analog signal compander
Ultra low latency: <3msec	No timing issues between musicians
Jack and XLR output	Compatible with guitar amplifiers and mixing tables
High dynamic range (100dB)	Can be used under highly variable signal conditions
2 Units mountable in 19" rack (1U)	Easy access and control

5.8GHz Ultra Low Latency Wireless Digital Audio

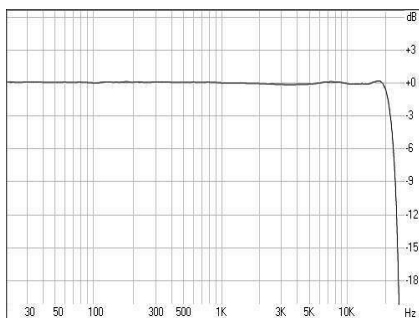
Features

- Wide audio frequency range: 10Hz – 21kHz
- Low audio noise: -100dB
- Low audio distortion: <0.07%
- Long range: >100m
- 12 RF-channels, selectable with controlknob
- Output max. $1V_{\text{eff}}$

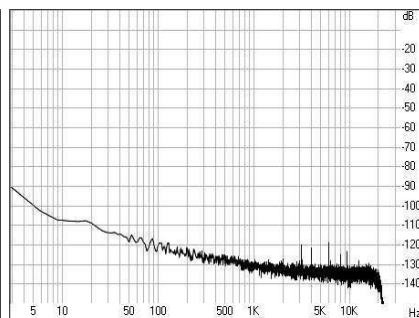
Specifications

Parameter	Typical	Units	Conditions
Audio sampling frequency	44,100	Hz	
Audio frequency response	10 – 21,000	Hz	$\pm 1\text{dB}$
Audio noise level	-100	dB	$\pm 3\text{dB}$, related to $1V_{\text{eff}}$
Audio distortion	0.069	%	Output: $1V_{\text{eff}}$, 1kHz, measured over the complete chain (transmitter + receiver)
Audio latency	2.9	ms	Measured over the complete chain
Max audio output level	1	V_{eff}	
RF frequency band	5725 – 5875	MHz	
RF sensitivity	15	μV	50 Ω , RF-bandwidth: 2MHz, BER: 10^{-3}
RF channels	12		
Range	>100	m	Free line of sight
Battery charging time (to 80%)	< 1.5	hours	Transmitter turned off
Mains voltage	90–240	V	With default mains adapter
Operating temperature	0 – 40	$^{\circ}\text{C}$	

Audio Frequency Response



Audio Noise Level



Audio THD+N

