



## AudioFetch Signature Specifications



The AudioFetch Signature series is custom-designed system audio-over WiFi solution. The hardware is created specifically for fast, efficient audio processing.

The superior AudioFetch platform is contained in a small, install-friendly enclosure (25.4cm x15.24cm x 7.62cm for 4, 8, 12 or 16 channels) that can be expanded in our factory or in the field with up to 512 inputs. Rack kits are available for each fitting.

It is absolutely the best hardware platform with low latency, flexibility, and an incredibly easy installation.



# audiofetch



## Product Details

- **Scaleable:** Incorporates a processor-per-input enabling scaling for multiple inputs. Adding multiple AudioFetch boxes enables broadcasting of up to 512 inputs.
- **Flexible:** Provides 3-connector-options (analogue, optical, and digital coax) for installation flexibility, and there are no additional costs for optical adapters etc.
- **Easy install:** Mount AudioFetch wherever is convenient – in a rack, in the ceiling, behind the TVs, on the wall etc.
- **Customer support:** We develop, own, and support our own technology so expert support is always available.
- **Integrate into your app:** API available for integrating AudioFetch into your own App.
- **Deploy native advertising:** Includes free advertising portal to deliver custom ads, and other content, in the app.
- **Analytics dashboard:** View usage/metrics from our portal and gain valuable customer insights.
- **Straightforward pricing:** No monthly fee.
- **Ethernet available:** Optional Dual Ethernet AudioFetch available which provides dedicated management port independent from WiFi port to user devices.
- **Cables Included:** All audio and Ethernet cables of the length, and type, you need are included at no additional cost.
- **Free marketing kit:** signs, table tents, cardio clings, entrance stickers, etc.





## Technical Specifications

POWER	
DC Power Input on APB	+12VDC 1.2A maximum Use only the provided AudioFetch AC power adapter
AC Power Adapter (provided)	AC Input: 100-240V, 50-60 Hz, .36A DC Output: 12V, 1.5A
AUDIO INPUTS	
Digital Optical Input	S/PDIF signal format over fibre-optic TOSLINK cable <b>Encoding:</b> Uncompressed PCM, interleaved stereo <b>Sample Rates supported:</b> 48KHz
Digital Coax Input	S/PDIF signal format over coaxial cable <b>Input Signal Level:</b> 0.55 Volts P-P typical <b>Input Impedance:</b> 75 $\Omega$ <b>Encoding:</b> Uncompressed PCM, interleaved stereo <b>Sample Rates supported:</b> 48KHz
Analog Input	L/R Stereo Channels into stereo 3.5mm connector, AC-coupled in APB <b>Input Signal Level:</b> 2.4 Volts P-P maximum <b>Input Impedance:</b> 12 K $\Omega$ typical
Audio Gain Adjustment range	+20 to -100 dB in 0.5 dB steps <i>Independent adjustment for each channel available through web based configuration pages (applies to Digital and Analog inputs)</i>
AUDIO STREAMING	
Simultaneous connected users (audio-streams) on each APB	250 maximum

System Latency (time delay between audio input on AudioFetch and headphone output on mobile device)	<p><b>1 user:</b> 115ms typical  <b>250 users:</b> 120ms typical</p> <p><i>These are based on minimal delays in the network/WiFi and thus represent sum of latencies in AudioFetch, the AudioFetch App, and mobile device Operating System only. Network, WiFi, and mobile device performance can affect latency. Some Android devices have greater latency.</i></p>
<b>NETWORK INTERFACE</b>	
Ethernet Port	100Base-TX, half/full duplex, auto-negotiated HP Auto MDI/MDI-X configuration (works with either straight-through or crossover cables)
IP Address	Auto configured via DHCP (default) Can be set to static IP address (using included configuration manager web portal or App (Doghouse))
<b>NETWORK PROTOCOLS AND PORTS</b>	
IP version support	IPv4
Streaming traffic for audio channels	Other than occasional control packets, each audio stream consists of UDP unicast packets outgoing from the APB
<b>NETWORK BANDWIDTH</b>	
Bandwidth consumed by each audio stream (Stereo APBs)	50 UDP packets per second approximately 201 bytes each (includes the IP header but not physical layer header) Therefore, UDP (+ IP header) bandwidth is approximately 10,050 bytes/sec for each audio stream Discovery and keep-alive control traffic is negligible compared to this
Bandwidth consumed by each audio stream (MONO APBs)	50 UDP packets per second approximately 121 bytes each (includes the IP header but not physical layer header) Therefore, UDP (+ IP header) bandwidth is approximately 6,050 bytes/sec for each audio stream Discovery and keep-alive control traffic is negligible
Dimensions	10 x 6 x 3 in
Channels	4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64...Up to 512. Add 1 channel increments using optional FetchExpress model.
Warranty	3 years

