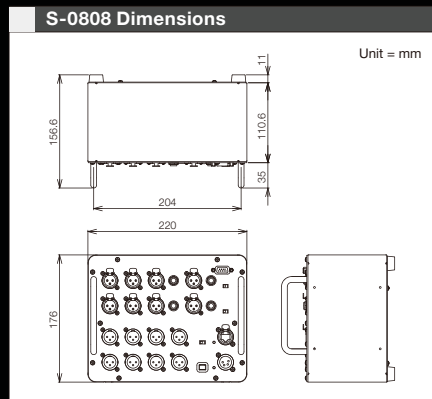## S-0808 Specifications

Number of Channels	8 in 8 out	Equivalent Input Noise Level (E.I.N.)	-128 dB
AD/DA Conversion	Sample Rate: 96.0 kHz/48.0kHz/44.1kHz Signal Processing: 24 bits	Network Latency	375 microseconds when using REAC cable only *1 (AD - REAC - DA Latency: about 1.2 ms)
Frequency Response	-2 dB/+0 dB (@ +4 dBu, 20 Hz to 20 kHz)	Connectors	Input x 8 (XLR type, balanced, phantom power, INPUT 1-8) Input x 2 (TRS type, balanced, INPUT 5/6) *2 Input x 2 (TRS type, balanced, with Hi-Z switch, INPUT 7/8) *2, *3 Output x 8 (XLR type, balanced) REAC EMBEDDED POWER x 1 (RJ-45 EtherCon type) REMOTE x 1 (RS-232C, DB-9 type), DC IN x 1 (XLR 4pin type)
Total Harmonic Distortion + Noise	0.04 % or less (Pad: On, Input Gain: +4 dBu, 22 Hz to 20 kHz)		
Dynamic Range	110 dB		
Cross Talk	-80 dB or less (Input Gain: +4 dBu, typ.)		
Nominal Input Level	-65 to -10 dBu (PAD: Off), -45 to +10 dBu (PAD: On) (1 dB step, Max. +28 dBu)	Power Supply	REAC EMBEDDED POWER or External Battery (DC 12V - 18V)
PAD	20 dB On/Off	Power Consumption	26W (DC 12V)
Input Impedance	7 k ohms	Phantom Power	+48 V/14 mA (each input, remote controlled)
Nominal Output Level	+4 dBu, Max. +22 dBu	Dimensions	220.0 (W) x 176.0 (D) x 156.6 (H) mm, 8-11/16 (W) x 6-15/16 (D) x 6-3/16 (H) inches
Output Impedance	600 ohms	Weight	2.9 kg, 6 lbs 7 oz
Recommended Load Impedance	10 k ohms or greater	Accessories	Battery Plate Holder and Fastening Screws (8 pcs), REAC Connector Covers x 1 Ferrite Core x 2, Fastening Screw x 4, Owner's Manual
Residual Noise Level (IHF-A, typ.)	-80 dBu or less		

*1: XLR connector 1: GND, 2: HOT, 3: COLD   *2: TRS takes priority if XLR and TRS are simultaneously input to INPUT 5-8.   *3: TRS of INPUT 7/8 turns to unbalanced when Hi-Z is turn on.   (0 dBu = 0.775 Vrms)

* When a REAC Splitter S-4000-SP or a switching hub is used in-line with REAC cables, the network latency will increase by the amount of processing delay introduced by the splitting device itself. The actual delay is dependant upon the specifications of the splitting device, though the maximum delay amount for a single splitting device should be about 200 microseconds.

S-0808 Dimensions

Unit = mm

156.6 · 110.6 · 11 · 35 · 204 · 220 · 176

Options

40Ch I/O Modular Rack
S-4000S-0832
Next generation digital audio transfer system - Digital Snake. This modular rack can be customized with a choice of high quality I/O cards.

8in/32out FOH Unit
S-4000H
FOH I/O unit that uses D-Sub connectors. Bundled cable protector.

REAC Cable (20 meters)
SC-W20F
20 meter premium REAC cable.

REAC Cable (100 meters) with Reel
W100S-R
Reel-mounted 100 meter cable.

REAC Optical Converter
S-OPT
Converter for transmitting REAC through optical cable. Maximum transmittable distance is 2 km. Uses Neutrik® OpticalCON connectors.

Superb Quality, Simple Setup, Flexibility.
The next generation audio transfer technology – REAC.

REAC (Roland Ethernet Audio Communication) is Roland's original technology. REAC transfers 40x40 of 24-bit uncompressed multi channel audio, level information, and control data over a single cat5e cable. This digital transfer system eliminates the typical problems found in analog transfer such as signal quality degradation or hums and buzzes. REAC provides not only superb sound quality but also is easy to install and cost effective using light-weight Cat5e cable.

REAC product line allows system flexibility and expandability

The REAC products are among the best in the industry on their own but they are designed to work even better as part of a system, communicating with each other via REAC. This system connection approach brings superior sound quality, is easy to learn, easy to use and brings all the powerful benefits of a digital solution.

Digital Snakes   **Personal Mixers**

M-48 LIVE PERSONAL MIXER

Digital Snake

SONAR cakewalk

Digital Consoles   **Recording**

Ensuring high quality while protecting the environment: Roland is ISO9001 and ISO14001 certified

At Roland, several group companies have obtained ISO9001 certification. In addition, in January 1999, Roland also received ISO14001 international environmental management system certification. We're actively seeking ways to maintain harmony with the environment. (ISO=International Standardization Organization: an organization for the promotion of standardization of international units and terms. They provide different categories of certification: ISO9001 Series certification is a product quality certification for products that undergo a certain level of quality control from the design stage to the after service stage; ISO14001 Series certification is for environment-related standards. Each member of the Roland Group is striving to obtain certification.)

rss by Roland

S-0808 8x8 I/O UNIT

New Possibilities in Multi-Channel Audio Distribution

Digital Snake
Multi Channel Digital Audio Transfer System

8 inputs x 8 outputs
Compact, light-weight, rugged
External battery powered or embedded power over REAC
TRS and Hi-Z inputs

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All specification and appearances are subject to change without notice.

www.rolandsystemsgroup.com/s0808

Nov. 2009 RAM-7031 M-PD

Compact and light-weight with support for external battery.
The new flexibility in digital audio transfer.

The S-0808 has unprecedented mobility enabling further convenience in many applications such as broadcast, event, live stage, audio installation and location sound. Enjoy flexibility in setup using external battery operation or power supplied over REAC.

All channels equipped with superb quality preamps. Eliminate the need for direct boxes with inputs 5 - 8 supporting balanced TRS and as well as 7 and 8 supporting Hi-Z from guitars.

DC input for External Battery.

Power supplied over REAC (REAC Embedded Power).

■ **S-4000R** Remote Controller

Dedicated remote controller for the Digital Snake series. Gain level, pad and phantom power are remotely controllable.

■ **S-4000RCS** Remote Control Software

Dedicated remote control software for the Digital Snake series. Monitor all 40 channels and control gain levels, pad, and phantom power from your PC.

S-0808 8x8 I/O Unit

Compact and Light-weight

The S-0808 weighs around 3kg (6.6lbs) enabling easy setup. Rugged construction with steel handles withstands the rigors of live and frequent use. Fan-less design enables quiet operation in any environment.
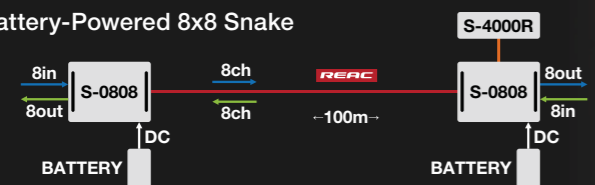
Superb Quality, Fully Discreet Preamp

All inputs employ a high quality preamp with fully discreet circuit design resulting in outstanding sound. Eliminate the need for direct boxes by using the TRS or Hi-Z inputs. Control input gain (-65 to +10dBu), Pad and Phantom Power via a dedicated S-4000R Remote Controller or using the PC Remote Control Software (S-4000RCS). When using as part of a V-Mixing System, these parameters are controlled directly from the M-400 or M-380 V-Mixer.

Power Options

The S-0808 supports unique types of power supply - REAC Embedded Power, and External Battery Options. Choose the type of power conducive to you location and application. Having not to rely on AC power opens up a world of convenience and flexibility. V-Mount (IDX) and Gold Mount (Anton Bauer) battery systems and mounts are supported using the included adapter plate.

Battery-Powered 8x8 Snake

8in / 8out — S-0808 — 8ch / 8ch — REAC — ←100m→ — S-0808 — 8out / 8in — S-4000R — DC — BATTERY

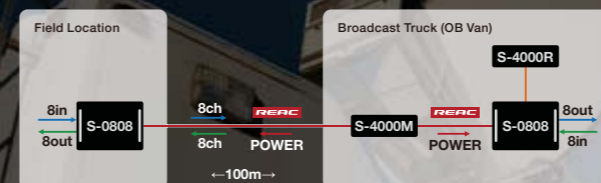An 8 input, 8 output simple digital snake system - ideal when AC power is not convenient or available.

Unparalleled Flexibility and Expandability.
The Digital Snake advantage.
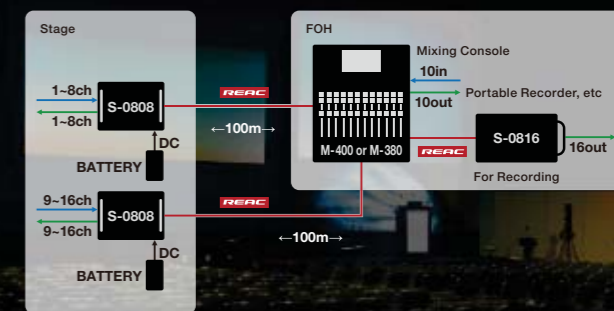
Configure for a variety of applications and environments.
Connectivity is simple enabling rapid system changes, expansion and flexibility.

Simple Mobile Broadcasting System (8in/8out)

Field Location — 8in / 8out — S-0808 — 8ch / 8ch — REAC — POWER — ←100m→ — Broadcast Truck (OB Van) — S-4000R — S-4000M — S-0808 — 8out / 8in — POWER
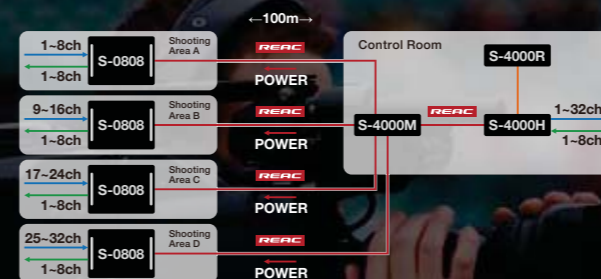
Simple system setup using a pair of S-0808s. The S-4000M in a Broadcast Truck (OB Van) provides power to the remote location. Control the remote inputs using the S-4000R.

Event/Concert System with Battery-powered I/O Units (26in/42out)

Stage — 1~8ch / 1~8ch — S-0808 — DC — BATTERY — 9~16ch / 9~16ch — S-0808 — DC — BATTERY — REAC — ←100m→ — FOH — Mixing Console 10in / 10out — M-400 or M-380 — REAC — S-0816 — 16out — Portable Recorder, etc — For Recording
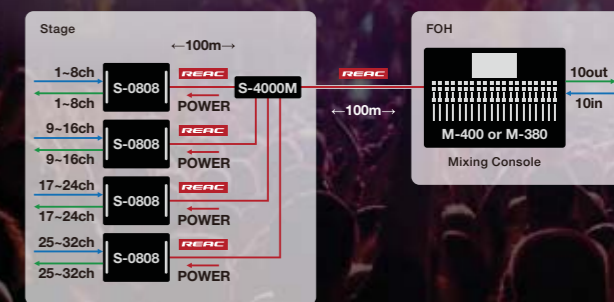
Small concert/event configuration using two battery-powered I/O units enable convenience in placing the talent where AC power is not necessarily available. Mix using your choice of V-Mixer.

Broadcasting System with Multiple Locations (32in/8out)

Shooting Area A — 1~8ch / 1~8ch — S-0808 — ←100m→ — REAC — POWER
Shooting Area B — 9~16ch / 1~8ch — S-0808 — REAC — POWER
Shooting Area C — 17~24ch / 1~8ch — S-0808 — REAC — POWER
Shooting Area D — 25~32ch / 1~8ch — S-0808 — REAC — POWER
Control Room — S-4000R — S-4000M — S-4000H — 1~32ch / 1~8ch

This system allows I/O to be place in 4 separate locations using S-0808s. The signals from the 4 units are merged by the S-4000M as it travels to the S-4000H breakout location. Power to each of the S-0808s is supplied by the embedded power over REAC in the S-4000M.

Live Stage Mixing System (32in/32out)

Stage — ←100m→ — 1~8ch / 1~8ch — S-0808 — REAC / POWER — 9~16ch / 9~16ch — S-0808 — REAC / POWER — 17~24ch / 17~24ch — S-0808 — REAC / POWER — 25~32ch / 25~32ch — S-0808 — REAC / POWER — S-4000M — REAC — ←100m→ — FOH — M-400 or M-380 — Mixing Console — 10out / 10in

This system enables the placement of S-0808 units around a stage conveniently located by the drum riser, keyboards, background vocals, etc.

■ **S-4000M** Merge Unit

Up to 4 REAC devices can be merged to a single REAC stream. Power can also be provided to each S-0808 using REAC Embedded Power technology.

■ **M-400/M-380** Live Mixing Console

The Live Mixing Console which uses the Digital Snake series as I/O units. 48 input/18 bus/8 matrix/56 output mixing capability allows use at a large variety of live events.

M-380