

MICRON

by Audio Engineering



The MICRON SDRQH is a new system housing for the SDR receiver. It is designed for applications where sets of receivers may be required for both studio and portable or mobile operations.

The SDRQH has been designed with the utmost versatility of use firmly in mind. Each SDR receiver is housed in foam lined pockets and is mounted through the front panel of the SDRQH. SDR receivers can be easily removed and replaced. When installed in the SDRQH, each receiver is powered from the rack; the audio output and RF connections are made using short flying leads.

On the rear of the housing each receiver has its own buffered and balanced XLR output connector, which is selectable for line or mic level.

RF input, audio output and DC input connectors are located in the rear panel. Antenna signals are fed in through the antenna distribution module (ADM module), which is bandpass filtered and amplified to compensate splitter losses. The ADM distributes both the RF signal and the DC supply to the 'A' and 'B' sides of the four receivers.

The SDRQH may be powered from an external 10-18V DC supply either via a DC socket on the rear panel or with the internal, rechargeable NP-1 pack.

SDRQH

- ☰ **A flexible, 4-channel, 1U studio rack for SDR receivers**
- ☰ **Enables SDR receivers to be used either as a studio system or as portable camera/mobile units**
- ☰ **Transformer-coupled, mic/line audio output**
- ☰ **Standard BNC RF input connectors**
- ☰ **Bandpass filtered, RF distribution amplifier**
- ☰ **Optional Mast-head Amplifier powering**
- ☰ **Standard XLR audio output connectors**
- ☰ **External or internal powering**
- ☰ **Standard 4-pin Hirose DC input connector**
- ☰ **Continuous battery-level monitoring**

TECHNICAL SPECIFICATION

RF DISTRIBUTION AMPLIFIER

Centre frequency	470 - 865MHz (to order)
Input impedance	50Ω
Gain (each output)	Unity (nom)
Bandwidth	32 MHz (nom)
3rd order intercept at input	>20dBm
Port to port isolation	>25dB
Noise	<3dB

AUDIO

Output Selectable	Mic or Line
Line	0dBV (1.0V RMS)*
Mic	-37dBV (into 200Ω)* * with SDR receiver volume pot set to maximum
Connector	XLR-3-32C

POWERING

Internal	NP-1 Battery Block
External	10 - 18V dc.
Current consumption	600 ±50mA (complete system)
Power switch	Front panel ON/OFF

CONNECTIONS

RF input	2 x 50Ω BNC sockets
RF outputs	8 x flying lead to SMA plug
DC input/output	2 x 4-pin Hirose
Input voltage range	10 - 18V dc

DIMENSIONS

Height	44.4mm
Depth	158mm
Width	483mm
Weight	2.3kg (less SDR receivers)