

# SL9003QHP-2S-RR

## Digital STL for Narrowband RF Channels



### *Use Narrowband Channels for High Fidelity STL!*

Moseley SL9003QHP-2S-RR & SL9003QHP-4S-RR allow 150 - 500 kHz RF channels to be used for high quality digital program audio transport. U.S. Part 101, and Mexican, South and Central American narrowband allocations make perfect choices with Starlink-RR. Moseley's Advanced Audio Engine and intentional transmission design maximizes the use of these licensed frequencies.

### FEATURES\*\*

- Build STLs on frequencies previously unusable by broadcasters.
- 2 & 4 Audio Channel models available to satisfy your station requirements.
- Linear Audio, AAC & MPEG Compression offer maximum payload capacity.
- Serial Data Channels carry RDS information.
- IP Data Channel provides one-way Ethernet connectivity for HD Radio™.
- 5 Watts Digital Power\* conquers challenging STL environments.
- Web Browser User Interface and SNMP allow convenient monitoring and control.

\*1 Watt in select frequencies

\*\*Payload capacity depends on channel bandwidth

The Moseley logo, consisting of the word 'Moseley' in a bold, blue, sans-serif font.

**General:**

Frequency Range	160 kHz to 2.4 GHz – all worldwide STL bands
Power Output	5 Watts (1 Watt select frequencies)
Channel Bandwidth	150 - 500 kHz
Audio Modes	Linear, AAC-LD&LC, MPEG-2/3, G.722
Frequency Response	<5 Hz to 22.5 kHz $\pm$ 0.2 dB @ 48kHz <5 Hz to 15 kHz $\pm$ 0.2 dB @ 32kHz
Distortion	<0.01% at 1 kHz
Latency	Linear 5 ms. / Compressed depends on algorithm
IP Data	0-2048 Mbps (depends on audio used)
RS-232 Data	6 channels @ 300-19200 bps
RF Input/Output Impedance	50 Ohms (nominal)
RF Connectors	N-Type

**Transmitter:**

Frequency Stability	0.00001 % (0.1 PPM), 0 to 50° C
Spurious and Harmonic	< -60 dBc
Type of Modulation	16, 32, 64, 128 QAM (user selectable)
FCC Emission Designations	150KD7W, 200KD7W, 250KD7W, 300KD7W, 500KD7W

**Receiver:**

Type of Receiver	Dual conversion super heterodyne
Dynamic Range	-35 dBm to -95 dBm
Frequency Stability	0.00001 % (0.1 PPM), 0 to 50° C
Receiver Sensitivity	-93 dBm/16 QAM; BER 10E-6
Error Correction	Reed-Solomon, t = 8

**Management:**

Front panel LCD, selector and status LED,  
Web Browser, SNMP

**Physical:**

Power Requirements	Universal AC 90-260 V, 47-63 Hz, 100 Watts TX – 85 Watts RX (Consult Factory for DC options)
Dimensions	17" w x 14" d x 5.2" h (43.2 cm x 35.6 cm x 13.2 cm)
Mount	19" Rack Mount – 3 Rack-units
Weight	TX 24 lbs.(52.8 kg) / RX 17 lbs. (37.4 kg)
Operating Temp. Range	-20°C to +60°C ambient
Operating Humidity	90% (non-condensing)

*Specifications depend on channel bandwidth and QAM rate and are subject to change without notice.*



*Rear View*