



Transmit data wirelessly across motor or RSS.

Designed to interface with either top-mounted or bottom-mounted pulsers.

Both standard version (150°C and 20,000 psi) and HTHP version (175°C, 25,000 psi) are available.

## BUILD A DOWNHOLE WIRELESS COMMUNICATION HIGHWAY

### FEATURES & BENEFITS

- Gap-based EM signal transmission and reception
- Communication distance up to 80 ft (24 m)
- Configurable data telemetry rate
- Works in water-base or oil-base muds

### APPLICATIONS

- Cross-motor wireless communication
- Cross-RSS wireless communication
- Cross-M/LWD tool wireless communication

**eHop** transmits data in wells drilled with oil-base muds.

**eHop** transmits data in wells drilled with water-base muds, even in case of high mud salinity.

**eHop** interfaces with top- or bottom-mounted pulsers as a drop-in node on the MWD string. No special datalinks are required for integration with the MWD system.

### TOOL FEATURE HIGHLIGHTS

- Compatible with water-base or oil-base muds
- Drop-in receiver module retains MWD tool string retrievability
- Available in 4-3/4 in. and 6-3/4 in. collar sizes

#### GENERAL

Receiver OD	1.375 in.
Receiver Length (With Bowl Centralizer)	5.38 ft (1.64 m)
Max Operating Pressure	20,000 psi (138 MPa)
Max Operating Temperature	175°C
Vibration	Max 20 Grms, 50-1000Hz
Shock	Max 500 G, 0.5ms (z-axis), 1000 G, 0.5ms (x- or y-axis)

#### COMMUNICATION

Transmission Antenna	Gap
Receiving Antenna	Gap
Data Range	Up to 30 BPS
Transmission Range	Up to 80 ft (24.4 m)
Mud Compatibility	WBM (Resistivity 0.1 ohmm or higher) or OBM (Oil/water ratio 85:15 or lower)
Formation Resistivity	2 – 200 ohmm for optimal short-hopping