





# **RELAY7**

# RTK rover radio module for SMART7 antennas

# **Easy integration**

RELAY7 from Hexagon | NovAtel is a rover radio module that attaches to the SMART7 to create a single unit for easy system integration and installation.

# **Multiple UHF radio options**

With the option of a 400 MHz or 900 MHz radio, receive RTK corrections from a compatible base station using one of the many supported correction formats.

# Magnetic or screw mounting options

The SMART7/RELAY7 combination can be mounted to a vehicle using integrated magnets or screws.



RELAY7 shown mounted at rear of a SMART7

# Benefits

• Radio connectivity for SMART7 to receive RTK corrections

# Features

- 400 MHz option compatible with various base stations
- 900 MHz option compatible with Freewave base stations

# RELAY7 Product Sheet

# Performance

Radio options 400 MHz 900 MHz

## **Radio specifications**

#### 400 MHz model

Frequency band (receive only) 403 to 473 MHz Rx sensitivity -103 dBm @ 25 kHz 103 dBm @ 12.5 kHz

### 900 MHz model

Frequency band (receive only) 902 to 928 MHz Rx sensitivity -108 dBm

# **Radio compatibility**

# 400 MHz model

SATEL 3AS PacCrest – 4FSK PacCrest – GMSK PacCrest – FST TrimTalk 450s (P) TrimTalk 450s (T)

### 900 MHz model

Freewave MM2-T (900 MHz) point to multipoint

# **Physical and electrical**

Dimensions	186.5 L x	199.5 W x 76.4 H mm
Weight		<850 g
Interface connec	tor	14-pin Tyco Ampseal
<b>External radio antenna connector</b> TNC female jack, 50 Ω nominal <b>Optional ethernet cable</b> M12D (M) to (F)		
Mounting 4 x M4 screw inserts Integrated magnetic mount		
Power		
the second conception and the second second		17+- 100V/DO

Input voltage range+7 to +30 VDCPower consumption2 W typical

Status LED

## **Interface ports**

## Pass through from SMART7

RS-232 dedicated ports
CAN Bus
Ground speed output

#### **Environmental**

Temperature	
Operating	-40°C to +70°C
Storage	-45°C to +80°C
Humidity	MIL-STD-810G(CH1), 507.6
Sand and dust	MIL-STD-810G(CH1), 510.6
Immersion	MIL-STD-810G(CH1), 512.6
Vibration	MIL-STD-810G(CH1), 514.7
Shock	MIL-STD-810G(CH1), 516.7
Solar radiation	MIL-STD-810G(CH1), 505.6
Salt fog	MIL-STD-810G(CH1), 509.6
Ingress protection rating IP67, IP	

### Compliance

1

2

1

1

FCC, ISED, CE Mark, E-Mark

# Available hardware models

- RELAY7-400
- RELAY7-900

### **Optional accessories**

- 400 MHz or 900 MHz antenna
- Interface cable
- Ethernet passthrough cable

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