Specifications

Trimble SNR910
- dual band

Models

900 MHz and 2.4 GHz dual frequency band capable

Standard Features

- Dual frequency band capability in a single, rugged on-machine radio – 900 MHz and 2.4 GHz, allows for even faster transition between 3D sensor configurations without having to run multiple radios or swap cables and hardware
- Easily ported between machines, uses common mount bracketry and interface cable
- Rugged, 100% fully sealed, waterproof cast aluminum housing, with no internal moving parts and sealed radio port connector and antenna, designed to be mounted externally on the machine
- Capable of being used on 12 V and 24 V machines, input voltage range of 9 to 32 V, reverse polarity protection and load dump protection
- Robust power handling allows direct connection to machine power for easier installation and cabling
- Backwards compatible with customer's existing Trimble GCS900, SiteVision®, and BladePro® 3D systems
- Radio capable of providing two-way wireless data transfer and remote machine diagnostics

Product Specifications

Compatibility:	SNR910 (900 MHz and 2.4 GHz)
GCS900 v10+	Yes
GCS900 v6.xx	Yes
SiteVision GPS	Yes (900 MHz only, GPS-only)
BladePro 3D	Yes (900 MHz only, GPS-only)
Two-way data capable	Yes
2WD & UTS simultaneously	Yes
Use as a GPS base station radio	No
Use with Trimble SPSx30 UTS	Yes
Use with Trimble ATS600 with internal 2.4 GHz radio	Yes
Use with Trimble ATS600 with external Trimble SNB900 900 MHz radio	No

Physical Characteristics

Height	220 mm (8.7 in.)
Height with radio antennas	400 mm (15.7 in.)
Width	215 mm (8.5 in.)
Depth	85 mm (3.3 in.)
Mounting::	7 mm holes, 86 x 186.79 mm rectangular pattern, mounted with 6 mm fasteners
	Machine Mount: SNR Adaptor bracket to standard Trimble 3D grade control system on-machine radio mount bracket.
Connector:	8 pin bulkhead, sealed

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Environmental Characteristics	
Temperature:	
Operating:	-40 °C to +70 °C (-40 °F to +158 °F)
Storage:	-40 °C to +85 °C (-40 °F to +185 °F)
Protection rating:	
Humidity:	100% fully sealed, waterproof
Sealing:	+/- 5 psi sealing
Vibrations:	9.8 gRMS
Electrical Specifications	
Input Voltage:	9 to 32 VDC
Current:	Nominal 500 mA
Power consumption:	
Reverse Polarity Protection:	Yes
Load Dump Protected:	Yes
EMC:	
Emissions:	Compliant with CE, FCC Part 15
Susceptibility:	Compliant with CE, FCC Part 15
GPS RF Performance	900 MHz
Transmit Power:	28.5 dBm, .7 W (Two-way data mode)
Receive Sensitivity	-103 dBm
Frequencies	902–928 MHz USA,Canada, Australia, NZ
Spacing	n/a
Over the Air Data Rate	128 kbps
Range	3-5 km (1.8 – 3.1 m) typical
UTS RF Performance	2.4 GHz
Transmit Power:	15 dBm, 32 mW
Receive Sensitivity	-85 dBm
Frequencies	2400-2483 MHz USA/Can/worldwide ~2400 – 2425 MHz France
Spacing	N/A
Over the Air Data Rate	460 kbps
Range	1 km typical

Specifications

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Radio cable S30 Pinout

Pin	*Signal*
A	PWR
B	GND
C	RS232 1 TXD
D	RS232 1 RXD
E	CAN Hi
F	RS232 2 TXD
G	RS232 2 RXD
H	CAN Lo

Specifications subject to change without notice.

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