

Specifications

Trimble SNR434 - dual band



Models 450 MHz, enabled 450 MHz and 2.4 GHz dual frequency band capability at time of purchase

Standard Features

- Rugged machine mounted radio
- 12 and 24V operation
- Flexible, rubber-duck style antennas
- Field upgradeable software
- Two RS232 serial ports
- One CAN (J1939) bus port (250kbps)
- LED provides information on radio status
- User configuration / troubleshooting via PC tool

Product Specifications

Compatibility:

GCS900 v10+	SNR410 (450 MHz and 2.4 GHz)	Yes
GCS900 v6.xx		Yes
SiteVision GPS		Yes (450 MHz only, GPS -only)
BladePro 3D		Yes (450 MHz only, GPS -only)
Two-way data capable		No
2WD & UTS simultaneously		No
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	188 mm (7.4 in.)
Height with radio antennas	368 mm (14.5 in.)
Width	211 mm (8.3 in.)
Depth	61 mm (2.4 in.)
Mounting::	7 mm holes, 86x186.79 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

Specifications

Trimble SNR434 - dual band

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:	IP67
Vibrations:	9.8 gRMS

Electrical Specifications

Input Voltage:	Suitable for 12 & 24VDC systems
Current:	9 to 32 VDC
Power consumption:	1.24 A
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

	450 MHz
Transmit Power:	Receive Only
Receive Sensitivity	-108 dBm
Frequencies	403-473 MHz worldwide
	19200 bps, 9600 bps, 4800 bps
Spacing	
Over the Air Data Rate	19200 bps, 9600 bps, 4800 bps
Range	2-5 km line of sight typical

UTS RF Performance

	2.4 GHz
Transmit Power:	20 dBm, 100 mW
Receive Sensitivity	-93 dBm
Frequencies	2400-2483 MHz worldwide
Spacing	N/A
Over the Air Data Rate	460 kbps
Range	1 km typical

Specifications

Trimble SNR434 - dual band

Pins



● A:	PWR+	○ P:	N/C
● B:	PWR-	○ R:	N/C
● C:	CAN1-H	○ S:	N/C
● D:	CAN1-L	○ T:	N/C
● E:	RS-232-2 TXD	○ U:	N/C
● F:	RS-232-3 TXD	○ V:	RS-232-2 RXD
● G:	RS-232-3 RXD	○ W:	N/C
○ H:	N/C	○ X:	N/C
○ I:	N/C	○ Y:	N/C
○ J:	N/C	○ Z:	N/C
○ K:	N/C	○ a:	N/C
○ L:	N/C	○ b:	N/C
○ M:	N/C	○ c:	N/C
○ N:	N/C		

Specifications subject to change without notice.

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Trimble Authorized Distribution Partner

Specifications

Trimble SNR934 - dual band



Models

900 MHz and 2.4 GHz dual frequency band capable

Standard Features

- Rugged machine mounted radio
- 12 and 24V operation
- Flexible, rubber-duck style antennas
- Field upgradeable software
- Two RS232 serial ports
- One CAN (J1939) bus port (250kbps)
- LED provides information on radio status
- User configuration / troubleshooting via PC tool

Product Specifications

Compatibility:

GCS900 v10+	SNR910 (900 MHz and 2.4 GHz)	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	188 mm (7.4 in.)
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Storage:	-40 °C to +85 °C (-40 °F to +185 °F)
Protection rating:	
Humidity:	100% fully sealed, waterproof
Sealing:	IP67
Vibrations:	9.8 gRMS

Electrical Specifications

Input Voltage:	Suitable for 12 & 24VDC systems
Current:	9 to 32 VDC
Power consumption:	1.24 A
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:	Receive Only
Receive Sensitivity	-105 dBm
Frequencies	902–928 MHz USA, Canada

Spacing	
Over the Air Data Rate	128 kbps

Range	3-5 km (1.8 – 3.1 m) typical
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UTS RF Performance

	2.4 GHz
Transmit Power:	20 dBm, 100 mW
Receive Sensitivity	-93 dBm
Frequencies	2400-2483 MHz worldwide

Spacing	N/A
Over the Air Data Rate	460 kbps

Range	1 km typical
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Specifications

Trimble SNR934 - dual band

Pins



● A:	PWR+	○ P:	N/C
● B:	PWR-	○ R:	N/C
● C:	CAN1-H	○ S:	N/C
● D:	CAN1-L	○ T:	N/C
● E:	RS-232-2 TXD	○ U:	N/C
● F:	RS-232-3 TXD	○ V:	RS-232-2 RXD
● G:	RS-232-3 RXD	○ W:	N/C
○ H:	N/C	○ X:	N/C
○ I:	N/C	○ Y:	N/C
○ J:	N/C	○ Z:	N/C
○ K:	N/C	○ a:	N/C
○ L:	N/C	○ b:	N/C
○ M:	N/C	○ c:	N/C
○ N:	N/C		

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