

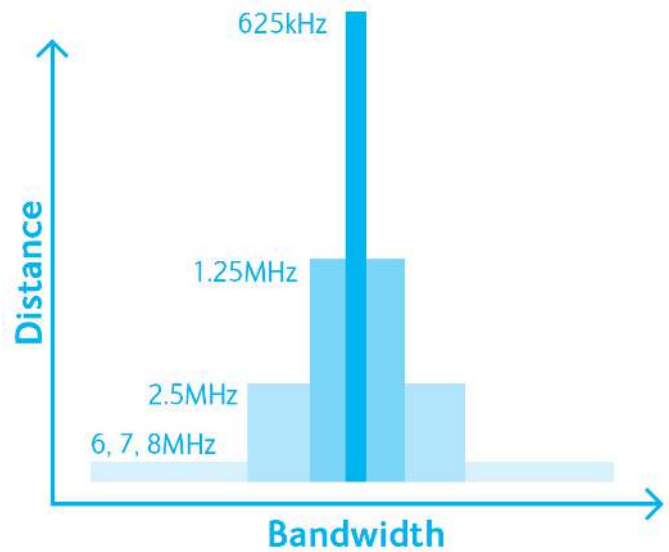
SDRAPP-RX

SDR Application Receiver

Overview:

SDR applications can be used in combination with SOL8SDR products to add functionality.

SOLO receivers can operate in a variety of bandwidths allowing the user to trade off image quality against range to suit all types of missions. Excellent range, performance and spectral efficiency are offered when operating in the 2.5MHz/1.25MHz/625kHz narrow bandwidth modes. For excellent image quality at shorter ranges the 8MHz DVB-T modulation can be employed.



Features and Benefits:

Industry standard DVB-T modulation for interoperability with existing systems

Domo Narrowband modulation for extended range, robustness and reduced channel requirements

Software configurable RF bandwidth between 625kHz and 8MHz

Ideal for establishing rugged wireless video links in all environments including mobile and urban non-line-of-sight

Product Information:

Product Includes

SDRAPP-RX	Silver, Gold or Platinum software license only
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Accessory Options (sold separately)

MISCDRTAC	Mission Commander Tactical application for desktop or tablet - refer to separate datasheet
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Related Documents

100263	SOL8SDR Receiver Software User Guide
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SDRAPP-RX

SDR Application Receiver

Technical Specification:

DVB-T Modulation

Bandwidth	8MHz, 7MHz, 6MHz modes
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Constellation	QPSK, 16QAM, 64QAM
Guard interval	1/4, 1/8, 1/16, 1/32
Bitrates	3.732Mbps to 31.668Mbps

Narrowband

Bandwidth	2.5MHz, 1.25MHz and 625kHz modes
FEC	1/3, 2/3
Constellation	QPSK, 16QAM, BPSK, 8PSK
Guard interval	1/8, 1/16
Bitrates	144kbps to 4.879Mbps

DVB-T Sensitivity

8MHz, Guard 1/32, QPSK, FEC 1/2	< -95dBm
7MHz, Guard 1/32, QPSK, FEC 1/2	< -95dBm
6MHz, Guard 1/32, QPSK, FEC 1/2	< -95dBm
8MHz, Guard 1/32, 16QAM, FEC 1/2	< -89dBm

Narrowband Sensitivity

2.5MHz, Guard 1/16, 16QAM, FEC 2/3	< -94dBm
2.5MHz, Guard 1/16, QPSK, FEC 2/3	< -99dBm
2.5MHz, Guard 1/16, QPSK, FEC 1/3	< -102dBm
1.25MHz, Guard 1/16, QPSK, FEC 1/3	< -104dBm
625kHz, Guard 1/16, QPSK, FEC 1/3	< -107dBm
625kHz, Guard 1/16, BPSK, FEC 1/3	< -110dBm
2.5MHz, Guard 1/8, QPSK, FEC 2/3	< -99dBm

Streaming

H.264	UDP Multicast RTSP Multicast/Unicast (TS or ES) RTP Multicast RTP-Z Multicast (DTC VFC) ONVIF profile S (discovery)
Output	Single service (first received)
Latency	Sub 200ms
Bitrates	0.25Mbps to 32Mbps

TS Decryption

Standard	ABS 32-bit
Licensable	AES 128/256-bit (subject to export control)

Recording

Medium	Internal microSD
Encryption	As per transmission/stream

Software License Code Includes

Silver	Streaming, DVB-T, Telemetry
Gold	Silver plus Narrowband 1.25MHz and 2.5MHz
Platinum	Gold plus Ultra Extreme Narrowband 625kHz

Export of encrypted products is subject to regulatory export controls.

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.enquiries@domotactical.com

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