

SOL8SDR2x2W-P

SOL8 Software Defined Radio (Plain)

Overview:

The SOL8 Software Defined Radio is an ultra-miniature COFDM digital video transceiver from Domo Tactical Communications (DTC), designed specifically for Point of View (PoV), body worn and concealment applications. Dependent on the applications loaded the platform can operate as a Transmitter, Dual Encoder, Standard IP Mesh and MIMO IP Mesh. Further information on software capability can be found in the SDRAPP datasheets.

Three enclosure variants are available: Concealment (-C), Robust (-R), Plain (-P). Plain (-P) provides a compact higher power solution (2x2W) for increased range and enhanced connectivity with native RJ45 and USB as standard.



Features and Benefits:

Dual high profile HD H.264 independent video encoders (NEW)

2x2W COFDM transceivers for use as COFDM Transmitter or IP Mesh

ISM band telemetry transceiver for control, PTZ and low power standby

Dual SD/HD-SDI video inputs for recording, transmission and analysis

Microphone inputs and headphone output for recording, transmission or talkback

Growing USB support for peripherals such as 3G/4G/Wi-Fi dongles

Ethernet, RS232 and RS485 connectivity and 128GB built in storage

Higher power packaging without the need for breakout cables

Very low power consumption: typically 12.5W

Exceptionally small size: 200mm x 100mm x 27mm

Weighs only 950g

Product Information:

Product Includes:

CA0002	12V DC Power lead Lemo-wire 3m
CA3172	12V 6.67A 80W PSU with PLUG 4 WAY 0B, External Cable Assembly
CA2396	DIN 1.0/2.3 to BNC Female Cable x 2
SA3741	SOL8SDR-P Support USB stick

Accessory Options (sold separately):

SDRAPP-ENC	SDR Application IP Encoder
SDRAPP-MESH	SDR Application IP Mesh NETNode
SDRAPP-TX	SDR Application COFDM Transmitter
SOL8SDR2x2W-P-HSK	Passive Heatsink accessory for SOL8SDR2x2W-P
AES128TX	AES 128-bit Encryption License
AES256TX	AES 256-bit Encryption License
AP009131	GlobalSat BU-353-S4 GPS with Type-A USB

Related Documents:

100217	SOL8SDR Hardware and Basic Setup Guide
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Technical Specification:

Interfaces

RF COFDM Transceiver 1	SMA (female)
RF COFDM Transceiver 2	SMA (female)
RF Telemetry Transceiver	SMA (female)
Video SD/HD-SDI 1	DIN 1.0/2.3 (female)
Video SD/HD-SDI 2	DIN 1.0/2.3 (female)
USB host	USB 2.0 Type A
Power Input	4-way Lemo
Power Output	9-way D-Sub
Microphone/Line Input	3.5mm socket
Headphone Output (mono)	3.5mm socket
PTZ Control or Data IO	9-way D-Sub
Gigabit Ethernet	RJ45

COFDM Transceivers

Power	2W (+33dBm) per output, 4W total
Power Step	0.25dB incremental control
Tuning Range	Frequency variant dependant
Tuning Step	125kHz
Required Application	SDRAPP-TX or SDRAPP-MESH

Telemetry Transceiver

Power	+11dBm frequency dependant
Tuning Range	Frequency variant dependant
Receiver Sensitivity	-114dBm
Required Application	SDRAPP-TX

Video

Digital Input	Dual SD/HD-SDI (supports SOL8SDI for HDMI or composite)
Required Application	SDRAPP-ENC

Audio

Headphone Output	Mono headphone driver
Analogue Input	High gain microphone stereo pair 10V microphone bias on inputs
Digital Input	SD/HD-SDI de-embedding
Required Application	SDRAPP-ENC or SDRAPP-MESH

Data

Data Configuration	1k2 to 115k2, 7/8 bit, no/odd/even parity
Data Interface	RS232 or RS485 or USB peripherals

Storage

Medium	Internal microSD 128GB (>8 hours recording at max DVB-T bitrate) (>29 hours recording at max NB bitrate)
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Control

Ethernet	PC Application control and file download Web GUI control and file download
Access	User, Super User and Admin accounts

Physical

Dimensions	L 200mm, W 100mm, H 27mm (not including connectors)
Weight	950g

Power

DC Input	8V to 18V reverse polarity protected
DC Output	1A pass-through (switchable) 5V regulated output limited to 1A (switchable)
Camera/Adapter Power	5V over video input (switchable)
Typical Power Consumption	12.5W (SD), 13.5W (HD), 14.5W (Dual), 19.5W (MIMO Mesh)

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Technical Specification (con't):

Environment

Temperature Range	-10 to +50 °C with additional cooling
Humidity	Less than 85% Non-Condensing
Cooling	External heatsink required for some modes
Sealing	IP54
EMC Conformance	CE marked

Frequency

201043	1.67-2.35GHz + 433.05-434.79MHz
201091	1.67-2.35GHz + 902.00-928.00MHz
234043	1.98-2.70GHz + 433.05-434.79MHz
234091	1.98-2.70GHz + 902.00-928.00MHz

Software License Code

Silver (included)	None included SDRAPP required
Gold	N/A
Platinum	N/A

Export of encrypted products is subject to United Kingdom 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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