



## D – SOLO4 Audio And Telemetry Receiver

The D-SOLO4 Audio and Telemetry Receiver is a diversity COFDM receiver, designed specifically for the reception of audio and telemetry data. The D-SOLO4 Audio and Telemetry Receiver can be configured into different user selectable bandwidths, to satisfy a variety of requirements. Bandwidths from 25KHz to 125KHz are available offering user capacity from 14 to 146kb/s. This capacity can be shared between audio and user RS232 telemetry data, in any combination. Additional bandwidths will be available in the future.

The D-SOLO4 Audio and Telemetry Receiver employs diversity reception and a unique narrow band COFDM modulation. It will receive telemetry data and audio in a non-line of sight environment up to 5km, depending on mode and frequency. The D-SOLO4 Audio and Telemetry Receiver is typically employed to provide talk back and also telemetry data for PTZ control in wireless video systems.

Security is ensured with AES128/256 bit encryption subject to export controls.

Supplied in a rugged, lightweight weather proof aluminum chassis, the D-SOLO4 Audio and Telemetry Receiver can be used in body-worn applications, or prolonged outdoor deployments.



**FOR FURTHER INFORMATION, CALL DIGICOM, INC ON (02) 587-7744**

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## Specification

<b>Input</b>		<b>Data Interface</b>	
RF Input 1	SMA	Format	RS232
RF Input 2	SMA	Baud Rate	1200, 2400, 4800, 9600, 19200, 38400, 57600 or 115200 baud
Power	4 pin OB Lemo	Parity	None, Even, Odd switchable
<b>Output</b>		Flow Control	XON/XOFF (optional)
Audio 1	5 pin OB Lemo	<b>IP Interface</b>	
Audio 2	5 pin OB Lemo	RS232 style interface for IP Card	
GPIO	16 pin Hirose	<b>Control</b>	
RS232 Data	16 pin Hirose	Remote Control	RS232 Control from PC GUI Application
RS232 Control	16 pin Hirose	Local Control	Front Panel 8 channel select, RF on/off, Range mode, Lock, Alarm
<b>RF</b>		<b>Physical</b>	
Frequency Bands	868 to 870MHz 457 to 459MHz (others available)	Dimension Base Unit	L 102mm, W 71mm, H 22mm
Input	Maximum Ratio Combining Diversity	Weight Base Unit	350g
Sensitivity	-110 to -120dBm depending on mode	<b>Power</b>	
Tuning Steps	12.5KHz	DC Input	5.9 to 16V Reverse Polarity Protected
<b>De-Modulation</b>		Power Consumption	2.4W to 3W depending on mode
Bandwidth	75 to 125KHz (A model only) 25 to 125KHz	<b>Environment</b>	
Carriers	99	Temperature Range	-20 to +70 deg C
Modulation	QPSK or 16QAM	<b>Accessories Supplied</b>	
FEC	1/2	2 x LPRS Antenna	
<b>Settings</b>		1 x SOLO 12V DC Power Lead Lemo-wire 2m	
Channel Spacing	25KHz 50KHz 75KHz 100KHz 125KHz	1 x 3rd Generation Man-worn Control Cable	
Bandwidth	20KHz 40KHz 60KHz 80KHz 100KHz	1 x Telemetry Audio Out Cable OB(FGA) Lemo-phono 3m	
Bitrate QPSK	14kb/s 29kb/s 44kb/s 58kb/s 73kb/s	1 x 3rd Generation Data Cable	
16QAM	28kb/s 58kb/s 88kb/s 116kb/s 146kb/s		
<b>Audio (A model only)</b>			
Output	Line Level or Headphone Level		
Sample Rate	8KHz		
Bits per Sample	24Kbit (Toll) or 32Kbit (Phone) Quality		
Algorithm	G726		
<b>Encryption</b>			
Format	AES128/256 (optional)		

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