

COFDM - VIDEO, AUDIO TELEMETRY & IP PRODUCTS

SOLO - DIGITAL WIRELESS VIDEO SYSTEM

SOLO4 - AUDIO AND TELEMETRY TRANSMITTER

The SOLO4 Audio and Telemetry Transmitter is a COFDM transmitter, designed specifically for the transmission of audio and telemetry data. The SOLO4 Audio and Telemetry Transmitter 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. Wider bandwidths are available on request.

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

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

The SOLO4 Audio and Telemetry Transmitter can also be connected to domo IP solutions to create rugged wireless IP Bridge applications.

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



Specification:

Input	
Audio	5 pin OB Lemo
GPIO	16 pin Hirose
RS232 data	16 pin Hirose
RS232 control	16 pin Hirose
Power	4 Pin OB Lemo

Output	
RF Out	SMA

RF	
Frequency Bands	868 to 870MHz (others available)
Power	100mW
Power Control	30dB in 1dB steps
Tuning Steps	12.5KHz

Modulation	
Bandwidth	25 to 125KHz (wider on request)
Carriers	99
Modulation	QPSK or 16QAM
FEC	1/2

Settings	
Channel Spacing	25KHz 50KHz 75KHz 100KHz 125KHz
Bandwidth	20KHz 40KHz 60KHz 80KHz 100KHz
Bitrate QPSK	14kb/s 29kb/s 44kb/s 58kb/s 73kb/s
16QAM	28kb/s 58kb/s 88kb/s 116kb/s 146kb/s

Audio	
Input	Line Level or Microphone
Sample Rate	8KHz
Bits per Sample	24Kbit (Toll) or 32Kbit (Phone)
Algorithm	Quality G726

Encryption	
Format	AES128/256 (optional)

Data Interface	
Format	RS232
Baud Rate	1200, 2400, 4800, 9600, 19200, 38400, 57600 or 115200 baud
Parity	None, Even, Odd switchable
Flow Control	XON/XOFF (optional)

IP Interface	RS232 style interface for IP Card
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Control	
Remote Control	RS232 Control from PC GUI
Local Control	Application Front Panel 8 channel select, RF on/off, Range mode, Lock, Alarm

Physical	
Dimension Base Unit	L 95mm, W 70mm, H 22mm
Weight Base Unit	350g

Power	
DC input	5.9 to 16V Reverse Polarity Protected
Power Consumption	2.4 to 3W depending on mode

Environment	
Temperature Range	-20 to +70 deg C

Products are available to security users only, in licensed frequency bands. These products are not approved for use by unlicensed users. Commercial products are available to unlicensed users – please contact us for details.

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