

SOLO4 - AUDIO AND TELEMETRY RECEIVER

The SOLO4 Audio and Telemetry Receiver is a diversity COFDM receiver, designed specifically for the reception of audio and telemetry data. The 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 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 SOLO4 Audio and Telemetry Receiver is typically employed to provide talk back and also telemetry data for PTZ control in **domo** wireless video systems.

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

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



Specification:

Input	
RF Input1	SMA
RF Input2	SMA
Power	4 Pin OB Lemo
Output	
Audio 1	5 pin OB Lemo
Audio 2	5 pin OB Lemo
GPIO	16 pin Hirose
RS232 data	16 pin Hirose
RS232 control	16 pin Hirose
RF	
Frequency Bands	868 to 870MHz (others available)
Input	Maximum Ratio Combining Diversity
Sensitivity	-110 to -120dBm depending on mode
Tuning Steps	12.5KHz
De-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	
Output	Line Level or Headphone Level
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
Control	
Remote Control	RS232 Control from PC GUI Application
Local Control	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	2.4W 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 - contact **domo** direct for details.

Product Code: TELRX-086087 TELRXA-086087



domo

domo is at the forefront of innovation, developing technologies in the fields of digital wireless, video, audio, telemetry and IP.

Our key technology expertise is in digital video processing, digital modulation and Internet Protocol (IP) interfacing.

Our strength is in adapting complex technologies into simple-to-operate, robust solutions.

Our team of dedicated **domo** engineers is continually developing new solutions directed by demanding customer requirements in fields such as:

- Police Forces
- Security Services
- Special Forces
- Homeland Security Agencies
- First Responders
- Fire Services
- Port Security
- Traffic Management Agencies.