

COFDM - VIDEO, AUDIO TELEMETRY & I P PRODUCTS

SOLO - DIGITAL WIRELESS VIDEO SYSTEM

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 – please contact us for details.

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ADLERTECH SYSTEMS PTE LTD

56A KALLANG PUDDING ROAD #07-00. SINGAPORE 349329

Tel: (65) 6747 4636 Fax: (65) 6747 6919

EMAIL: sales@adlertechsystems.com