

# SOLO - LDR Transmitter

COFDM – Video, Audio Telemetry and IP Products

**COBHAM**

September 2011 Data Sheet

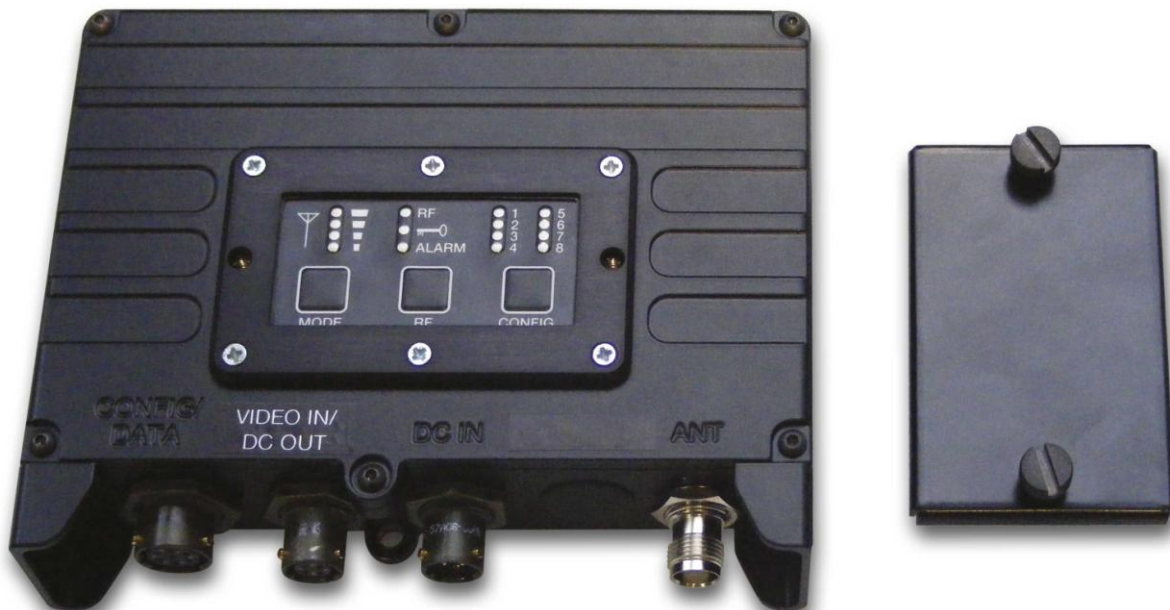
The most important thing we build is trust

The LDR (Low Data Rate) transmitter from Cobham Tactical Communications and Surveillance is a long-range digital video transmitter with Cobham technology at its core. The LDR transmitter sends informational quality video at reduced frame rates, compressed to very low data rates (typically 30kb/s), to an LDR receiver. This high level of compression and reduced data rate means that the LDR transmitter can send images over very long distances. The LDR transmitter occupies at least 50kHz of bandwidth, and can therefore be used more easily at UHF frequencies. Housed in a robust, water sealed enclosure and consuming only 3W, the LDR transmitter is ideal for long-term outdoor deployments.

Security is ensured with optional AES128/256 bit encryption.

The LDR transmitter is available in a variety of frequency bands from 300MHz to 1GHz, other frequencies are available on request.

The LDR transmitter will transmit images in a non-line of sight environment up to 2km, and line of sight to 20km depending on mode and frequency - further range can be achieved with the optional clip-on booster PA.



# SOLO – LDR Transmitter

COFDM – Video, Audio Telemetry and IP Products

September 2011 Data Sheet

## Specification:

### Input

|                 |          |
|-----------------|----------|
| Composite Video | Amphenol |
| RS232 Control   | Amphenol |
| Power           | Amphenol |

### Output

|           |     |
|-----------|-----|
| RF Output | TNC |
|-----------|-----|

### RF

|                 |   |
|-----------------|---|
| Frequency Bands | 902 to 905MHz,<br>868 to 870MHz,<br>457 to 458MHz (others on request) |
| Power           | 100mW   |
| Power Control   | 30dB in 1dB steps   |
| Tuning Steps    | 12KHz   |

### Modulation

|            |                                  |
|------------|----------------------------------|
| Bandwidths | 50, 75, 100 or 125kHz selectable |
| Type       | COFDM, QPSK and 16QAM            |

### Video

|               |                                  |
|---------------|----------------------------------|
| Line Standard | PAL/NTSC                         |
| Resolution    | SIF (352 * 288) QSIF (176 * 144) |
| Coding Mode   | MPEG4                            |
| Delay         | 1 to 1.5 second                  |
| Frame Rate    | 12, 5 or 2 frames/s              |

### Encryption

|                |   |
|----------------|---|
| Format         | AES128/256 Selectable (optional)                                    |
| Control        |   |
| Remote Control | RS232 Control from PC GUI Application                               |
| Local Control  | Front Panel 8 channel select,<br>RF on/off, Range mode, Lock, Alarm |

### Physical

|           |                          |
|-----------|--------------------------|
| Dimension | L 150mm, W 120mm, H 35mm |
| Sealing   | IP67                     |

### Power

|                   |                                      |
|-------------------|--------------------------------------|
| DC input          | 10 to 16V Reverse Polarity Protected |
| Power Consumption | 3.5W                                 |

### Environment

|                   |                  |
|-------------------|------------------|
| Temperature Range | -20 to +60 deg C |
|-------------------|------------------|

### Product Codes:

|              |                             |
|--------------|-----------------------------|
| LDRTX-090090 | Low Data Rate TX 902-903MHz |
| LDRTX-086087 | Low Data Rate TX 868-870MHz |
| LDRTX-045045 | Low Data Rate TX 457-459MHz |

### Product Code Includes

|            |   |
|------------|---|
| 1 x CA0252 | Robust external shielded power cable 2M       |
| 1 x CA0253 | Robust external shielded control cable 2M     |
| 1 x CA0347 | Robust external shielded video/power cable 2M |

### Accessory Options

None

### Licensing Options

|          |                                    |
|----------|------------------------------------|
| AES128TX | AES Transmitter 128 Bit encryption |
| AES256TX | AES Transmitter 256 Bit encryption |



For further information please contact:

### Cobham Tactical Communications and Surveillance

The Cobham Centre – Solent, Fusion 2  
1100 Parkway  
Solent Business Park  
Whiteley  
Hampshire, PO15 7AB  
England

T: +44 (0)1489 566 750  
F: +44 (0)1489 880 538  
css.sales@cobham.com

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 Cobham Tactical Communications and Surveillance direct for details.

All product specifications are subject to change without notice. Cobham Tactical Communications and Surveillance will not be liable for technical or editorial errors or omissions.

