

# SOLO ASI COFDM Transmitter

COFDM - Video, Audio Telemetry and IP Products

**COBHAM**

June 2011 Data Sheet

The most important thing we build is trust



The SOLO ASI Transmitter from Cobham is a rugged, modulator-transmitter, ideal for repeater/re-bro applications.

The ASI Transmitter can operate in a variety of transmission bandwidths allowing the user to trade off image quality against range to suit all types of applications. Excellent range, performance and spectral efficiency are offered when operating in the optional narrow bandwidth mode, which when combined with H.264 encoding (in the starter link) allows true broadcast quality pictures to be transmitted in only 2.5MHz bandwidth. This enables users to maximise usage of limited RF spectrum as 2 or 3 cameras can occupy the bandwidth previously required by a single MPEG2 system. All modes of DVB-T modulation are also supported.

Able to transmit images in a non-line of sight environment up to 1km depending on mode and frequency, the transmitter can achieve even further range with an optional clip-on booster PA.

The SOLO ASI transmitter features mounting holes for bespoke applications.

For excellent range and coverage, the SOLO ASI transmitter can be operated with the Cobham Pro-RXB receiver (see separate datasheet). The Pro-RXB receiver is available with 2 way, 4 way, 6 way and 8 way diversity.

#### Features:

- ASI input
- DVB-T 6/7/8MHz and optional narrowband modulation
- Low power consumption 10W
- Ultra lightweight 400g
- Upgrade path to SD and HD video encoding.

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## Specification:

### Input

ASI	SMA(m)
USB Control	6 way OB Lemo
Power	4-way OB Lemo

### Output

RF	SMA(f)
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### RF

Frequency Bands	340-470MHz 2.0-2.5GHz 2.5-3.0GHz 3.0-3.5GHz 5.5-6.0GHz 6.5-7.0GHz* 7.0-7.5GHz* 8.1-8.6GHz
Tuning Step Size	250kHz
O/P Power	100mW

### Modulation

DVB-T Bandwidth	8, 7 and 6MHz modes
DVB-T Guard	1/32, 1/16, 1/8, 1/4
DVB-T FEC	1/2, 2/3, 3/4, 5/6, 7/8
DVB-T Modulation	QPSK, 16QAM, 64QAM
DVB-T Sensitivity	-95dBm best case mode
Narrowband Bandwidth	2.5MHz mode
Narrowband Bit-rates	600kbps to 4.8Mbps
Narrowband Sensitivity	-102dBm best case mode

### Data Interface

RS232 Data Input	1k2 to 115k2 baud switchable 7/8 bit, none/odd/even parity
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### ASI

Mode	Byte Mode
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### Control

Front Panel	Integrated Controller + OLED display
Remote Control	USB Control from PC GUI Application

### Physical

Dimensions	L 130mm, W 80mm, H 30mm
Weight Base Unit	400g

### Power

DC Input	6 to 17V Reverse Polarity Protected
Power Consumption	10W

### Environment

Temperature Range	-10 to +50o C
Sealing	Splash Proof

### Product Code:

SOLASITX-034047	Solo ASI TX 340-470MHz 100mW
SOLASITX-200250	Solo ASI TX 2.0-2.5GHz 100mW
SOLASITX-250300	Solo ASI TX 2.5-3.0GHz 100mW
SOLASITX-300350	Solo ASI TX 3.0-3.5GHz 100mW
SOLASITX-550600	Solo ASI TX 5.5-6.0GHz 100mW
SOLASITX-640700	Solo ASI TX 6.4-7.0GHz* 100mW
SOLASITX-750800	Solo ASI TX 7.0-7.5GHz* 100mW
SOLASITX-810860	Solo ASI TX 8.1-8.6GHz 100mW

### Options

TX-SDUP	Enable SD Video Encoding
TX-HDUP	Upgrade SD unit to HD
TX-NBUP	Enable 0.625/1.25/2.5MHz modulation
TX-RFUP-xxxxxx	RF Band Swap

### Supplied Accessories

USB Control Cable
RS232 Data Input Cable
DC input cable Lemo to bare ends 3m

### Optional Accessories

Camera mount bracket – V-Lok
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All product specifications are subject to change without notice.  
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\* = Currently under development

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