

# SOL8TELTRX

## SOLO8 Telemetry Transmitter and Receiver

### Overview:

The DTC SOLO8 Telemetry Transmitter/Receiver is a small, single box solution providing Bi-Directional ISM band telemetry communications.

The SOLO8 Telemetry TRX can operate in two modes:-

- Low bandwidth 'SOLO8-SDR compatible' 4800 baud
- High bandwidth mode capable of up to 115200 baud



### Features and Benefits:

- Small footprint
- Bi-directional data link
- 20dBm output power
- Available in standard ISM bands
- Single power/data connector
- Low power consumption
- RS232 control port
- Switchable RS232, RS422 and RS485 data port
- Compatible with SOLO8-SDR telemetry \*
- Higher data rate mode available (range is reduced)

\* Please contact DTC Tech Support for details

### Product Information:

#### Product Includes

CA3142	Power and RS232 data breakout cable
AP009029	Tri-Band telemetry antenna 144/430/900MHz

#### Accessory Options (sold separately)

CA3160	Power and RS485/422 data breakout cable
--------	---

#### Related Documents

100248	SOLO8 Telemetry TRX User Guide
--------	--------------------------------

# SOL8TELTRX

## SOL08 Telemetry Transmitter and Receiver

### Technical Specification:

#### Inputs

Combined Power and Control	15 way HD D-SUB
----------------------------	-----------------

#### Outputs

RF	SMA
----	-----

#### RF Bandwidth

Long Range	4.8kHz
Short Range	100kHz

#### RF Power

Maximum	20dBm
---------	-------

#### RF Sensitivity

Long Range	-114dB
Short Range	-95dB

#### Encryption

DES	Standard
AES*	128 bit (subject to export control)

#### Control

Remote Control	RS232
----------------	-------

#### Data Interface

Data Format	RS232, RS422 or RS485 switchable
Data Baud	1k2 to 115k2
Data Throughput	Up to 4k8 baud in Long Range Up to 115k2 baud in Short Range
Latency	24ms end to end (excluding RF signal transit time)

#### Physical

Dimensions	L 85mm, W 52mm, H 18mm
Weight	100g

#### Power

DC Input	9-18V 3W peak
----------	---------------

#### Environmental

Operating Temperature	-20 to +50 °C
Storage Temperature	-24 to +60 °C
Sealing	IP52

#### Frequency

433	433MHz ISM Band (433.05-434.79MHz)
868	868MHz ISM Band #
915	915MHz ISM Band (902-928MHz)

#### Software License Code

AES128RXTX	Receiver/Transmitter 128 bit AES decryption/ encryption
------------	---

\* License feature

# Future development

Export of encrypted products is subject to United Kingdom regulatory export controls.

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email [solent.enquiries@domotactical.com](mailto:solent.enquiries@domotactical.com)

**DTC – Herndon (Headquarters)**  
2303 Dulles Station Boulevard  
Suite 205  
Herndon, VA  
20171, USA

T: +1 800 665 4648

**DTC – Tampa**  
3845 Gateway Centre Boulevard  
Suite 360  
Pinellas Park, FL  
33782, USA

T: +1 727 471 6900

**DTC – Solent**  
Fusion 2, 1100 Parkway  
Solent Business Park  
Whiteley, Hampshire  
PO15 7AB, UK

T: +44 (0) 1489 566 750

**DTC – Randers**  
Haraldsvej 64B  
DK-8960  
Randers SØ  
Denmark

T: +45 8791 8100

**DTC – Singapore**  
21 Media Circle  
Infinite Studios #05-06  
Singapore  
138562

T: +65 6339 0508