

SOLO4 Miniature Robust Receiver

COFDM – Video, Audio Telemetry and IP Products

COBHAM

October 2011 Data Sheet

The most important thing we build is trust



The Cobham Miniature Robust Receiver is a fully portable COFDM digital diversity receiver. The unit utilises the latest miniature receiver technology shared with the Nanovue unit.

The Miniature Robust Receiver incorporates a digital diversity receiver with a robust and compact IP67 enclosure. It is ideal for use as a confidence or monitoring receiver for tactical use, or for long term covert Surveillance, perimeter security and fire control where permanent installations require weatherproof housing.

Control is achieved through the Ethernet port by connecting the unit to an IP network using the Ethernet interface provided, or via the Cobham Field Controller product.

The Miniature Robust Receiver is ideal for those seeking extended battery duration in tough environments with high technology receiver performance.

The product can run from any 9-16V DC supply capable of supplying 2A.

Features

- Fully featured 8/7/6/2.5/1.25 MHz & 625KHz demodulation
- Maximum ratio combining antenna diversity
- Internal recording to SD card
- Compact weatherproof housing to IP67
- Miniature Rx in discreet enclosure
- Rugged Amphenol connectors
- Controllable via Field Programmer or Ethernet
- Low current drain, typically 8W

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Specification:

Inputs

RF Input from Antenna 1	TNC
RF Input from Antenna 2	TNC
Power	As below
Ethernet	As below

Outputs

Control	D Type (F) & 5 pin Lemo (FCON)
Data	D Type(F)
Headphone	Female Socket
Composite Video	Female BNC
Stereo line level audio	Pair Male Plugs.

Connectors

Power	3-Pin Military 62GB connector
Ethernet	4-Pin Military 62GB connector
Outputs	13-Pin Military 62GB connector

RF

Frequency Bands	2.17 to 2.5GHz
Tuning Step Size	250kHz

Control

Local Remote	Field Programmer Ethernet
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Dimensions

190*100*30mm, 650g

DC Input

9V to 16V, 8W consumed

Modulation

DVB-T Bandwidth	8 / 7 / 6 MHz
DVB-T Guard	1/32, 1/16, 1/8, 1/4
DVB-T FEC	1/2, 2/3, 3/4, 5/6
DVB-T Modulation	QPSK, 16QAM, 64QAM
DVB-T Sensitivity	-95 dBm

Narrow Band Bandwidth	2.5 / 1.25 MHz
Narrow Band Guard	1/8, 1/16
Narrow Band FEC	1/3, 2/3
Narrow Band Modulation	QPSK, 16QAM
Narrow Band Sensitivity	-95 to -104 dBm

Video

Line Standard	PAL / NTSC
Resolution	704, 528, 480, 352
Coding Mode	MPEG2 / MPEG4
Delay	80 ms

Audio

Output	Line Level (standard), Headphone (optional)
Sample Rate	48kHz
Format	MPEG Audio 384 to 64kb/s

Temperature

-10 to +50 deg C

Product Code:

MRRX-034047	MMRX, 340 to 470 MHz
MRRX-100150	MMRX, 1.00 to 1.50GHz
MRRX-165238	MMRX, 1.65 to 2.38GHz
MRRX-217250	MMRX, 2.17 to 2.50GHz
MRRX-310370	MMRX, 3.10 to 3.70GHz
MRRX-440500	MMRX, 4.40 to 5.00GHz
MRRX-550600	MMRX, 5.50 to 6.00GHz

Product Code Includes

1 x CA0252	Robust Shielded Power Cable
1 x CA0284	Ethernet Cable 5M
1 x CA0551	MRRX VID/AUD/CTRL Cable
License for Narrowband	(2.5MHz), DVB-T, MPEG2

Accessory Options

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

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