

## PRORXD - 2RU

### Professional Receiver Dual Decoder

COFDM – Video, Audio Telemetry and IP Products

April 2016 Data Sheet

# DTC



The PRORXD-2RU is a feature-rich COFDM receiver/decoder with DUAL receive and HD decoding capability in a single enclosure. Designed specifically for the demanding broadcast market, it is supplied in a 1/2 19" 2RU high rack chassis, where two units can be mounted together to occupy a 19" slot and uses standard broadcast connectors for signal interfaces.

It is available with 6-way or 8-way maximum ratio combining RF inputs, ensuring video is recovered free from the distortions typically associated with fading and multipath. All DVB-T 6/7/8MHz modes are supported, plus DTC's 6/7/8MHz UMLV (Ultra Mobile Video Link) modulation – designed to enhance performance when utilising higher frequency bands or in high-speed TX applications such as Motorsport. DTC Narrowband, enabling broadcast quality (4.8Mbps) signals to be transmitted in only 2.5MHz bandwidth is available as an option. Designed to work with external DTC down-converters, the receiver can be located up to 100m from the antennas using standard 75Ω co-axial cables.

The unit incorporates an extremely flexible decoding platform, with low-delay SD and HD MPEG2 and H.264 decoding ensuring compatibility with all DTC and most 3rd party encoders. An optional 2nd decoder can be enabled, allowing 2x SD or HD signals to be decoded. Multiple video output formats are offered with composite and SDI outputs in SD mode and HD-SDI and in HD mode. SDI/HD-SDI both feature embedded audio and HDMI outputs are provided for use with domestic TV's. ASI in/out is offered as an option.

A full Genlock facility is available in both SD and HD modes. When in HD mode, an optional downconverted SD composite video monitoring output is also offered.

The unit can also be used as an IP decoder. When paired with a DTC IP Encoder, the unit can send an IFB signal to the remote location via the reverse leg of the IP link. An optional adaptive bit-rate encoding/decoding mode is also available, allowing fully automated operation on variable capacity or contended networks such as VSAT or BGAN terminals.

The PRORXD-2RU can be controlled through its comprehensive, full-colour front panel touch-screen display, as well as on its RS232 or IP Ethernet browser control interfaces.

A comprehensive On Screen Graphical display is available for monitoring and diagnostics, which can be enabled or disabled separately on the two video outputs.

#### Features:

- DVB-T & UMLV demodulation
- 2, 4, 6 or 8 RF inputs with 9/12DC switchable down converter powering
- Fully compliant MPEG2 and H.264 SD/HD decoding
- HD-SDI/SDI with embedded audio out
- Composite video outputs (with optional HD down-conversion)
- HDMI outputs
- IFB input (IP mode)
- 2<sup>nd</sup> decoder option
- Auto bit-rate capability (with DTC Broadcast IP Encoder)
- ASI input and output
- Front panel control (+ Web-browser and RS232)
- Genlock input
- Comprehensive on-screen display (OSD) diagnostics
- Ultra low delay video operation for real time applications
- 2RU half-rack mounting
- 12VDC powering (AC adaptor supplied)

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**Specification:****Inputs**

Power	XLR4(m)
RF	8 x BNC (50-850MHz)
IP Streaming/Control	RJ45
ASI In	2 x BNC
IFB	2 x XLR3F
Genlock	BNC
RS232 Control	9-pin D-type

**Output**

CBVS/SDI/HD-SDI//ASI	2 x BNC
ASI Out	1 x BNC
HDMI	2 x Type A HDMI
IP Streaming/Control	RJ45
Stereo Audio	4 x XLR3M + 2 x Lemo 0B 5-way
RS232 Data	2 x 9-pin D-type
Audio headphone monitor	3.4mm stereo jack

**Ethernet**

Mode	2 x 10/100/1G Ethernet Ports
Function	Remote Control via web-browser

**Video (dual decoding option)**

Line Standard (SD)	PAL/NTSC
Resolution (HD)	720p50, 720p59, 720p60, 1080i50, 1080i59, 1080i60, 1080p23, 1080p24, 1080p25, 1080p29, 1080p30, 1080psf23, 1080psf24, 1080psf25, 1080psf29, 1080psf30, 1080p50, 1080p60
Decoding Mode	H.264 SD/HD 4:2:0/4:2:2  MPEG2 SD/HD 4:2:0/4:2:2 H.263 SD
Delay	From 15ms end-to-end (mode dependant)

**Audio**

Analogue Output	4 Stereo Pairs +18dBm (on 600 ohm)
AES/EBU	4 Stereo Balanced Pairs (110 ohm)
Sample Rate	48KHz
Format	MPEG Audio 384Kb/s to 64Kb/s Mono or Stereo

**IP** MPEG-2 UDP/RTP/RTSP

**ASI**

Mode Byte or packet mode

**Data Interfaces**

RS232 Data Output 1K2 to 115K2 baud switchable

**Control**

Remote Control	Network Web Browser control interface RS232 Control from PC GUI Application
Local Control	Front Panel touch-screen display
Preset Loading	Front panel USB
On Screen Display	Spectrum, RX SNR, RX Power

**Physical**

Dimension W 220mm, D 320 mm, H 88mm

Weight TBC

**Power**

DC Input 6 to 26V Reverse Polarity Protected  
Power Consumption 27-49W (down converter dependant)

**Environment**

Temperature Range -10°C to +50°C

**Product Codes:**

Please see configurator table on the following page.

Products are available to security users in licensed frequency bands. Encryption licences are subject to export control. These products are not approved for use by unlicensed users. Commercial products are available if used in appropriate licensed frequency bands.

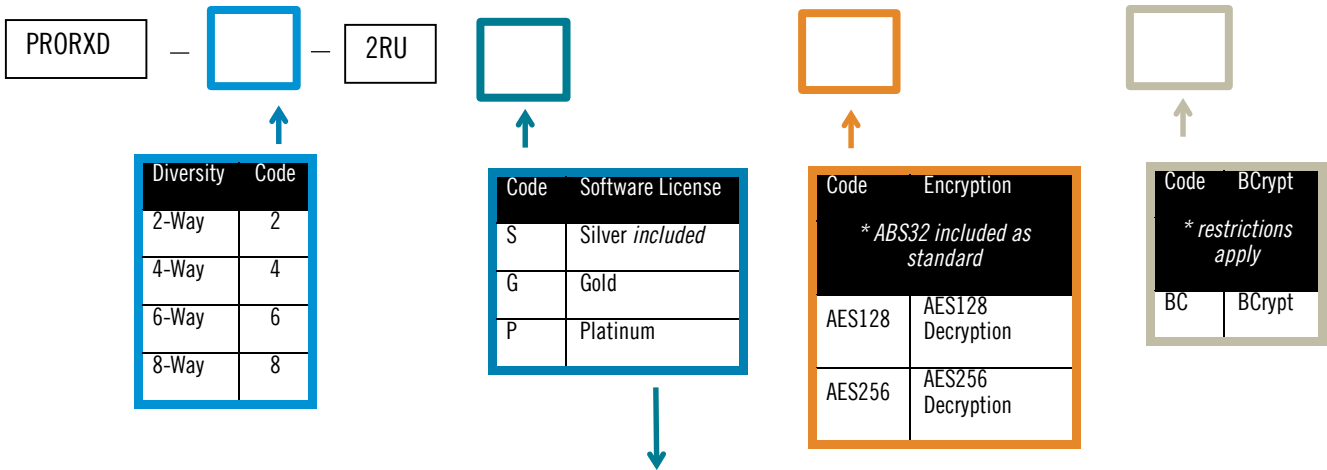
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**DTC SALES CODE**

Please enter required codes



Software License Code Includes	
Silver	DVB-T, MPEG-2, H.264 SD
Gold	<b>Silver plus</b> H.264 HD, MPEG-4 ASP, Narrowband 1.25MHz & 2.5MHz, IP Streaming
Platinum	<b>Gold plus</b> Ultra Extreme Narrowband 625kHz, Ultra Mobile Video Link (UMVL)

Product Code Includes	
PRORXD	2RU Receiver
CA0512	External XLR Audio Cable Assembly 2M
CA0649	External 12V 6.67A 80W Desktop Power Supply Unit Assembly

Compatible Products (sold separately)	
SOL4DCAM	DropCam Transmitter
SOL4MTX	Transmitter
SOL5TX	Transmitter
SOL7NTX	Transmitter
SOL7HDNTX	Transmitter
SOLH264TX	Transmitter

Related Accessories (sold separately)	
PRORXDSRFP-2RU	Single Rack Front Panel Extender 2RU
PRORXCPLKT-2RU	PRORXD-2RU Coupling Kit
PRORXD-DEC2	Enable 2nd HD decoder on ProRXD receiver/IP Decoder
DCB/DCBGS	Various frequency codes available, please consult RF section of the datasheet
Antennas	Various frequencies available
CABRF	RF Cable
PRORXD-UP	2-way Diversity Upgrade

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