

# PRORXD-1RU

## Professional Dual Channel Receiver and Decoder

### Overview:

The excellent RF performance is complemented by an extremely flexible decoding platform, with low-delay SD and HD MPEG2 and H.264 decoding ensuring compatibility with all Domo Broadcast and most third party encoders. An optional second decoder can be enabled, allowing two SD or HD signals to be decoded. Multiple output formats are offered with composite and SDI outputs in SD and HD-SDI including embedded audio. ASI transport stream in/out is available and HDMI outputs are provided for use with domestic TVs. A comprehensive graphical on screen display (OSD) is available for monitoring and diagnostics, which can be enabled or disabled separately on the two video outputs.



### Product information:

#### Product Includes

CA0512	External XLR audio cable
CA0579	HDTX external XLR audio cable
CA0649*	External 12V 6.67A 80W desktop PSU

\* Requires AC cable

#### Accessory Options (sold separately)

AP000481	UK power cable for CA0649
AP001483	US power cable for CA0649
AP004634	EU power cable for CA0649
AP007192	AU power cable for CA0649
PRORXDSRFP-1RU	Single rack front panel extender 1RU
PRORXCPLKT-1RU	PRORXD-1RU coupling kit
PRORXD-DEC2	Enable second HD decoder (license)
PRORXD-UP	Two way diversity upgrade (license)
RX-PACDIV-UP	ASI packet diversity (license)
DCB/DCBGS	Downconverters - various bands available
Antennas	Various frequencies available
CABRF1/3/10	TNC/TNC 50Ω RF cable. 1, 3 or 10m lengths
BNCBNC5/10	BNC/BNC 75Ω ultra flexible cable. 5 or 10m lengths

#### Related Documents

100167	PRORXD Broadcast Receiver User Guide
100223	PRORXD-1U-Quick-Start-Guide

### Features and Benefits:

Single 4-way or dual 2-way diversity COFDM receiver – maximal ratio combining across all RF inputs for maximum sensitivity and flexibility

Dual SD/HD MPEG-2 and MPEG-4 4:2:2 decoding capability

Composite SD/HD-SDI, HDMI outputs plus ASI in/out  
IP streaming in/out

B&B and tri-level genlock supported

News gathering/SNG vehicles

Events coverage

Video assist

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### Technical Specification:

#### Inputs

Power	XLR4 (m)
RF	BNC (50-850MHz) x 4
ASI In	BNC
IFB	5-way Lemo
Genlock	BNC
RS232 Control	9-way D-type on optional breakout cable

#### Output

Switchable CBVS/SDI/HD-SDI/ASI	BNC x 2
HDMI	HDMI type A x 2
ASI Out	BNC
Audio	5-way 0B Lemo x 2
RS232 Data	9-way D-type on optional breakout cable x 2

#### Video (dual decoding option)

Resolutions (SD)	PAL/NTSC
Resolutions (HD)	720p50, 720p59, 720p60, 1080i50, 1080i59, 1080i60, 1080p23, 1080p24, 1080p25, 1080p29, 1080p30, 1080p50, 1080p59, 1080p60, 1080psf23, 1080psf24, 1080psf25, 1080psf29, 1080psf30
Supported video codecs	H.264 SD/HD 4:2:0/4:2:2 MPEG-2 SD/HD 4:2:0/4:2:2 MPEG-4 Part 2 ASP (DTC proprietary)
Delay	From 15ms end-to-end (mode dependant)

#### Audio

Switchable output	One stereo pair of balanced analogue audio or two balanced AES/EBU (four channels) per decoder
Analogue output	Stereo +18dBm (on 600 ohm)
AES/EBU	Balanced (110 ohm)
Sample rate	48KHz
Format	MPEG audio layer 1 or 2 64kbps to 384kbps

#### Ethernet

Mode	10/100 Ethernet ports x 2
Function	Remote control via web-browser UDP/RTSP streaming over IP IP decoding

#### ASI

Mode	Byte or burst mode
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#### Data Interfaces

RS232 data output	1K2 to 115K2 baud switchable
Features	GPS data extraction

#### Control

Remote control	Network web browser control interface
Local control	Front panel display with navigation keys
On screen display	Spectrum, RX SNR, RX power

#### Physical

Dimension	220mm (W), 320 mm (D), 44mm (H)
Weight	2.1kg

#### Power

DC input	9 to 26V reverse polarity protected
Power consumption	27-49W (downconverter dependant)

#### Environment

Temperature range	-20°C to +60°C
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#### Software License Code

Silver (included)	DVB-T, Video Decoder, SD Only (MPEG-2, H.264-SD), Ultra Mobile Video Link (UMVL)
Gold	Silver plus Narrowband 2.5MHz & 1.25MHz (H.264-HD & MPEG-4 ASP), Second Decoder, IP Streaming, IP Decoding
Platinum	Gold plus Narrowband 625kHz, 4:2:2

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

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