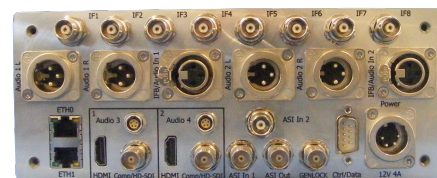


# PRORXD-2RU

## 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.



### Features and Benefits:

Single 8-way or dual 4-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 – option to decode two HD signals simultaneously

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

IP streaming out

B&B and tri-level genlock supported

News gathering/SNG vehicles

Events coverage

Video assist

### Product Information:

#### Product Includes

|         |                                    |
|---------|------------------------------------|
| CA0512  | 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-2RU | Single rack front panel extender 2RU               |
| PRORXCPLKT-2RU | PRORXD-2RU coupling kit                            |
| 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 |
| 100224 | PRORXD-2U-Quick-Start-Guide          |

# PRORXD-2RU

## Professional Dual Channel Receiver and Decoder

### Technical Specification

#### Inputs

|               |   |
|---------------|---|
| Power         | XLR4 (m)                                |
| RF            | BNC (50-850MHz) x 8                     |
| ASI In        | BNC x 2                                 |
| IFB           | XLR3 (f)                                |
| Genlock       | BNC                                     |
| RS232 Control | 9-way D-type on optional breakout cable |

#### Output

|                          |   |
|--------------------------|---|
| 2x CBVS/SDI/HD-SDI Video | BNC x 2                                     |
| HDMI                     | HDMI type A x 2                             |
| ASI Out                  | BNC   |
| Audio                    | XLR3 (m), 2 x 5-pin 0B Lemo x 4             |
| 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 |
| Decoding mode    | H.264 SD/HD 4:2:0/4:2:2<br>MPEG2 SD/HD 4:2:0/4:2:2<br>MPEG-4 Part 2 ASP (DTC proprietary)  |
| Delay            | From 15ms end-to-end (mode dependent)  |

#### Audio

|                   |   |
|-------------------|---|
| Switchable output | Two stereo pairs of balanced analogue audio or two balanced AES/EBU (four channels) per decoder |
| Analogue output   | Stereo pairs +18dBm (on 600 ohm) - two on XLR and two on Lemo                                   |
| AES/EBU           | Two stereo balanced pairs (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<br>UDP/RTSP streaming over IP |

#### ASI

|      |                    |
|------|--------------------|
| Mode | Byte or burst mode |
|------|--------------------|

#### 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), 88mm (H) |
| Weight    | 2.7kg                           |

#### Power

|                   |                                     |
|-------------------|-------------------------------------|
| DC input          | 9 to 26V reverse polarity protected |
| Power consumption | 27-49W (down converter dependent)   |

#### Environment

|                   |                |
|-------------------|----------------|
| Temperature range | -20°C to +60°C |
|-------------------|----------------|

# PRORXD-2RU

## Professional Dual Channel Receiver and Decoder

### Technical Specification (con't):

#### 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   |
| PRORXD-DEC2       | Enable Second HD Decoder   |
| PRORXD-UP         | Two-Way Diversity Upgrade  |
| RX-PACDIV-UP      | ASI Packet Diversity   |
| AES128PRORX       | AES128 Decryption for PRORXD   |
| AES256PRORX       | AES256 Decryption for PRORXD   |

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)

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