



FEATURES/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

SDI/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

PRORXD-2RU Professional Dual Channel Receiver and Decoder

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 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	5-way Lemo to two 3-way XLR (m) audio cable
CA0649*	4-way XLR (f) to 12V 6.67A 80W desktop PSU

* Requires AC cable

Accessory Options (sold separately)

APO00481	UK power cable for CA0649
APO01483	US power cable for CA0649
APO04634	EU power cable for CA0649
APO07192	AU power cable for CA0649
CA0511	RS232 control/data cable
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

TECHNICAL SPECIFICATION

IO

Power	4-way XLR (m)
RF	BNC (50-850MHz) x 8
ASI in	BNC x 2
IFB	3-way XLR (f) x 2
Genlock	BNC
RS232 Control/Data	9-way D-type
SDI/HD-SDI/ASI out	BNC x 2
HDMI out	HDMI type A x 2
ASI out	BNC
Audio	3-way XLR (m) x 4 (Ch1-L/R, Ch2-L/R) 5-way Lemo (f) x 2 (Ch3, Ch4)

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 MPEG2 SD/HD 4:2:0/4:2:2 MPEG-4 Part 2 ASP (DBS 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 UDP/RTSP streaming over IP

ASI

Mode	Byte or burst mode
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Data Interfaces

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

TECHNICAL SPECIFICATION cont

Control

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

Decryption

Standard	ABS 32-bit
Licensed	AES 128/256-bit (subject to export control)

Physical

Dimension	220mm (W), 320 mm (D), 88mm (H)
Weight	2.7kg

Power

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

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)
PRORXD-HD	Enable HD decoding
PRORXD-4:2:2	Enable 4:2:2 chroma decoding
PRORXD-IP	IP Streaming in/out
PRORXD-DEC2	Enable Second HD Decoder
PRORXD-UP	Two-Way Diversity Upgrade
RX-PACDIV-UP	ASI Packet Diversity
AES128PRORX	AES 128-Bit Decryption
AES256PRORX	AES 256-Bit and AES 128-Bit Decryption

