



FEATURES/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

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-1RU 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 Systems 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
CA0579	5-way Lemo to two 3-way XLR (f) 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
AP001483	US power cable for CA0649
APO04634	EU power cable for CA0649
AP007192	AU power cable for CA0649
CA0511	RS232 control/data cable
PRORXDSRFP-1RU	Single rack front panel extender 1RU
PRORXCPLKT-1RU	PRORXD-1RU 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 4
ASI in	BNC
IFB	5-way Lemo
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 out	5-way Lemo 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 dependent)

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

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), 44mm (H)
Weight	2.1kg

Power

DC input	9V to 26V reverse polarity protected
Power consumption	27-49W (downconverter 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)
Gold	Silver plus Narrowband 2.5MHz & 1.25MHz (H.264-HD & MPEG-4 ASP), Second Decoder, IP Streaming, IP Decoding, SDI Ancillary Data
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	AES 128-Bit Decryption
AES256PRORX	AES 256-Bit and AES 128-Bit Decryption

