

PRORXD-8-2RU-AEON

4K Professional HEVC Receiver and Decoder

Overview:

The perfect partner to the AEON-TX HEVC Transmitter. The PRORXD-8-2RU-AEON provides low latency HEVC Ultra High definition decoding. The decoder can support a single 4K stream via quad 3G-SDI outputs. The HEVC codec used offers a step change in compression efficiency over H.264 systems, whilst maintaining low end-to-end latency, suitable for live events.

High definition professional output formats are offered including HD-SDI with embedded audio and balanced stereo audio.

Excellent RF performance ensures compatibility with Domo Broadcast and most third party encoders.



Features and Benefits:

Ultra-low latency HEVC SD, HD and 4K decoding with tri-level sync genlock

Video formats up to 2160p60, 10-bit and 4:2:2 Chroma sampling. Future HDR support

Scalable decoding platform supporting a single 4K or HD service or one 'QUAD' HD service

Dual pedestal 4-way diversity or single 8-way diversity COFDM receiver

Four 3G HD-SDI video outputs, two balanced stereo audio pairs

Controlled via IP or integrated LCD display

IP streaming out

ASI Input for daisy-chaining receivers

Product Information:

Product Includes

| | |
|---------|------------------------------------|
| *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 |
| DCBGSB | Downconverters - various bands available |
| Antennas | Various frequencies available |
| BNCBNC5/10 | BNC (m) to BNC (m) 75Ω cable, 5/10m ultra-flexible |

Related Documents

| | |
|--------|---|
| 100270 | PRORXD-AEON Broadcast Receiver User Guide |
|--------|---|

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Technical Specification:

Inputs

| | |
|----------------|-----------|
| Power | XLR4 male |
| RF (50-850MHz) | BNC x 8 |
| Genlock | BNC |
| ASI | BNC |

Output

| | |
|-----------------|---------------|
| 3G HD-SDI video | BNC x 4 |
| Balanced audio | XLR3 male x 4 |
| RS232 control | 9-way D-type |

Video

| | |
|----------------|---|
| HD resolutions | 720p (50,59,60) 1080i (50,59,60) 1080p (23,24,25,29,30,50,59,60) **1080psf (23,24,25,29,30) 2160p (23,24,25,29,30,50,59,60) |
| Decoding modes | HEVC 4:2:2 / 4:2:0 8/10 bit |
| Delay | 4K HEVC low delay 1080p50 -> 70ms (end to end) 2160p50 -> 110ms (end to end) |

Audio

| | |
|-------------|---|
| Output | Two balanced stereo pairs on four XLR3 Up to +24dBu levels on 600Ω |
| Sample rate | 48kHz |
| Format | LPCM |

Ethernet

| | |
|----------|---|
| Mode | 10/100 Ethernet ports x 3 |
| Function | Remote control via web-browser UDP/RTSP streaming over IP (up to 32Mbit/s) |

Additional IO

| | |
|------------|---------------------|
| Genlock in | Tri-level composite |
|------------|---------------------|

Control

| | |
|----------------|---------------------------------------|
| Remote control | Network web browser control interface |
| Local control | Front panel touch screen display |

Encryption

| | |
|--------------------------------------|---------------|
| Standard | ABS |
| Licensed (subject to export control) | AES128/AES256 |

Power

| | |
|-------------------|-----------------------------------|
| DC input | 12-18V reverse polarity protected |
| Power consumption | <60W |

Physical

| | |
|------------|---------------------------------|
| Dimensions | 220mm (W), 320 mm (D), 88mm (H) |
| Weight | 3kg |

Environment

| | |
|-------------------|----------------|
| Temperature range | -10°C to +50°C |
|-------------------|----------------|

Software License Code

| | |
|-------------------|--|
| Silver (included) | DVB-T, Dual Pedestal, UMVL |
| Gold | Silver plus Narrowband 2.5 and 1.25MHz, IP Streaming |
| LIC-AEON-PSF | PSF Video Formats |
| AES128RX | AES 128 bit decryption |
| AES256RX | AES 256 bit decryption |

**Additional license feature

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

DTC – Herndon (Headquarters)
2303 Dulles Station Boulevard
Suite 205
Herndon, VA
20171, USA

T: +1 800 665 4648

DTC – Tampa
3845 Gateway Centre Boulevard
Suite 360
Pinellas Park, FL
33782, USA

T: +1 727 471 6900

DTC – Solent
Fusion 2, 1100 Parkway
Solent Business Park
Whiteley, Hampshire
PO15 7AB, UK

T: +44 (0) 1489 566 750

DTC – Randers
Haraldsvej 64B
DK-8960
Randers SØ
Denmark

T: +45 8791 8100

DTC – Singapore
21 Media Circle
Infinite Studios #05-06
Singapore
138562

T: +65 6339 0508