







**8820P NRG100KX30E K0800 0**

Function: 1 channel HD/SD AVS+ transcoding

Function: Multi-stream H.264 HD/SD transcoding

**80K63000M0**

Video input: AVS+, H.264, MPEG-2

Video output: H.264

Chroma: 4:2:0

Resolution: 1080i@25/30

720p@50/60

576i@25, 480i@30

Monitoring output : 2x HD/SD-SDI mirroring

1x HDMI

1x CVBS

**000 83000M0**

Transcoding channel: 1 transcoding, 2 pass-through

Audio output: SDI embedded, HDMI embedded

AES-EBU, Analog

Audio transcoding: MPEG-1 Layer1/2

MPEG-2/4 AAC-LC

MPEG-4 HE-AAC

Dolby AC-3/AC-3 Plus

Video input: H.264, MPEG-2

Video output: H.264

Resolution: 1080P@50/50.94

1080P@25/29.97

1080i@25/29.97

720P@50/59.94

576i@25, 480i@29.97

Chroma: 4:2:0

Audio transcoding: MPEG-1 layer II

MPEG-4 AAC-LC

MPEG-4 AAC-SBR

**DVB-S/S2 Receiver Module (Tuner-S/S2)**

Function: DVB-S/S2 satellite signal receiving

**DVB-T/T2 Receiver Module (Tuner-T/T2)**

Function: DVB-T/T2 terrestrial signal receiving

Interface: 2 RF input, 2 RF loop out

Demodulation: DVB-S(QPSK), DVB-S2(QPSK/8PSK)

Input level: -25dBm to -65dBm

Frequency range: 950 - 2150 MHz (L-Band)

Polarity voltage: off, +13V, +18V

Max current :400mA

Band tone: 22 kHz on/off

Symbol rate: 1M~45M Bound

Descrambling: BISS Descrambling(Optional)

Interface: 4 RF input, support 2 diversity reception

Frequency range: 47.5 - 862 MHz

Band mode: 6MHz,7MHz, 8MHz

Demodulation: QPSK,16QAM,64QAM

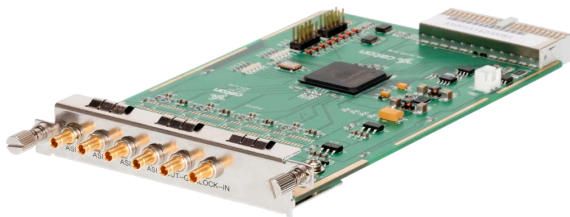
FFT: 2K/8K

Guard interval: 1/32, 1/16, 1/8, 1/4

Support 12V power supply

## ASI I/O Module (IO-ASI)

Function: 4 ASI input or output, with various pattern



Support various ASI I/O combination pattern:

- 4 input
- 3 input and 1 output
- 2 input and 2 output
- 1 input and 3 output
- 4 output

ASI gateway in one unit for channel backup

Support EN-50083-9 standard

Support 188bytes/204bytes

ASI bit rate: 0~200Mbps for 1 channel

Support Genlock input and loop out

## CA Descrambling Module (CAM)

Function: CA descrambling



Slot in front panel

Each module integrates 4 channel CA descrambling  
Descrambling capacity depends on the capacity of CAM cards;

Detect program status automatically

Perform well with different CAM cards

## IPASI I/O Module (IO-IPASI)

Function: 2 IP input & output, 2 ASI input or output



10/100/1000Base-T Ethernet, RJ45

Support UDP/RTP (Unicast/Multicast)

Each streaming support 10 SPTS output, 3 MPTS output

Each streaming support up to 600Mbps bit rate

ASI bit rate: 0~200Mbps for 1 channel

Support Genlock

## Multi-Protocol IP Transmitting Module (SMIP)

Function: Multi-Protocol IP transmitting over Internet



Slot in front panel

4x 10/100/1000Base-T Ethernet, RJ45

Each streaming port can be configured as TX or RX

Protocol: R2TP/R2TP-S

RTMP

UDP

Max Stream Channel: (Each streaming port)

R2TP/R2TP-S: 2

RTMP: 16

UDP: 2

Max Bit Rate: (Each streaming port)

R2TP/R2TP-S: 60Mbps

RTMP: 20Mbps

UDP: 60Mbps

Support TS AES encryption for R2TP connections

Support DHCP & Manual

Support DNS

## Typical Application

### Multi-channel HD/SD Digital Decoder (H.264/MPEG-2)

#### Functions

m channel HD/SD 4:2:2 Digital video/audio decoding, input: ASI  
m channel HD/SD 4:2:2 Digital video/audio decoding, input: IP  
m channel HD/SD 4:2:2 Digital video/audio decoding, input: IP & ASI  
m channel HD/SD 4:2:0 Digital video/audio decoding, input: IP & ASI  
m channel HD 4:2:2 Digital video/audio decoding, n channel HD/SD 4:2:0 Digital video/audio decoding, input: IP & ASI  
m channel HD 4:2:2 Digital video/audio decoding, input: IP & ASI, 4 HD program monitoring

#### Modules

DDO-422×m, IO-ASI×1 (m ≤5)  
DDO-422×m, IO-IPASI×1 (m ≤5)  
DDO-422×m, IO-IPASI×1 (m ≤5)  
DDO-420×m, IO-IPASI×1 (m ≤5)  
DDO-422×m, DDO-420×n, IO-IPASI×1 (m + n ≤5)  
DDO-422×m, MDO×2, IO-IPASI×1 (m ≤3)

### Professional Signal Receiver (DVB-S/S2/T)

#### Functions

2m channel DVB-S/S2 RF signal receiving, output: ASI  
2m channel DVB-S/S2 RF signal receiving, output: IP  
2m channel DVB-S/S2 RF signal receiving, output: IP & ASI  
4m channel DVB-T RF signal receiving, diversity reception, output: IP  
2m channel DVB-S/S2 RF signal receiving, 4n channel DVB-T RF signal receiving, output: IP & ASI  
2m channel DVB-S/S2 RF signal receiving, Multiplex & Daisy Chain, input: ASI, output: ASI

#### Modules

Tuner-S/S2×m, IO-ASI×1 (m ≤5)  
Tuner-S/S2×m, IO-IPASI×1 (m ≤5)  
Tuner-S/S2×m, IO-IPASI×1 (m ≤5)  
Tuner-T×m, IO-IPASI×1 (m ≤5)  
Tuner-S/S2×m, Tuner-T×n, IO-IPASI×1 (m + n ≤5)  
Tuner-S/S2×m, IO-IPASI×1 (m ≤5)

### Integrated Receiver Decoder

#### Functions

2m channel DVB-S/S2 RF signal receiving, n channel HD/SD 4:2:2 Digital video/audio decoding  
2m channel DVB-S/S2 RF signal receiving, n channel HD/SD 4:2:0 Digital video/audio decoding  
4m channel DVB-T RF signal receiving, n channel HD/SD 4:2:2 Digital video/audio decoding

#### Modules

Tuner-S/S2×m, DDO-422×n (m + n ≤6)  
Tuner-S/S2×m, DDO-420×n (m + n ≤6)  
Tuner-T×m, DDO-422×n (m + n ≤6)



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