



Commercial IRD Options for Shaw Conversion

January 26, 2017

Commercial IRD Products



DSR-7401



12 channel MPEG-2/4 HD/SD to SD transcoder

AVAILABLE: NOW

DSR-7403, 7406, 7409 and DSR-7412



3, 6, 9 and 12 channel MPEG-2/4 HD to HD/SD transcoder

AVAILABLE: 7403: NOW

Target Dates: {
7406: Mid-2017
7409: Mid-2017
7412: Mid-2017

DSR-4410MD



Multi-decrypter capable of decrypting and passing an entire transport stream output

AVAILABLE: NOW

DSR-4440



Commercial receiver/MPEG-2/4 decoder with transport stream output.

AVAILABLE: NOW

DSR-4460



Commercial receiver/MPEG-2/4 decoder with HD/SD SDI and transport stream outputs

AVAILABLE: NOW

Multi-Channel

MPEG-2 SD Output Use Cases – **DSR-7401**

- Use Case 1 – MPEG-2 SD from MPEG-4 HD & SD

MPEG-2 HD/SD Output Use Case - **DSR-7403/7412**

- Use Case 2 – MPEG-2 HD/SD from MPEG-4 HD

MPEG-4 SD Output Use Case – **DSR-7401**

- Use Case 3 – MPEG-4 SD from MPEG-4 HD & SD

MPEG-4 HD/SD Output Use Case – **DSR-4410MD**

- Use Case 4 – MPEG-4 HD from MPEG-4 HD and/or MPEG-4 SD from MPEG-4 SD

Single-Channel

MPEG-2 HD/SD Output Use Case – **DSR-7403**

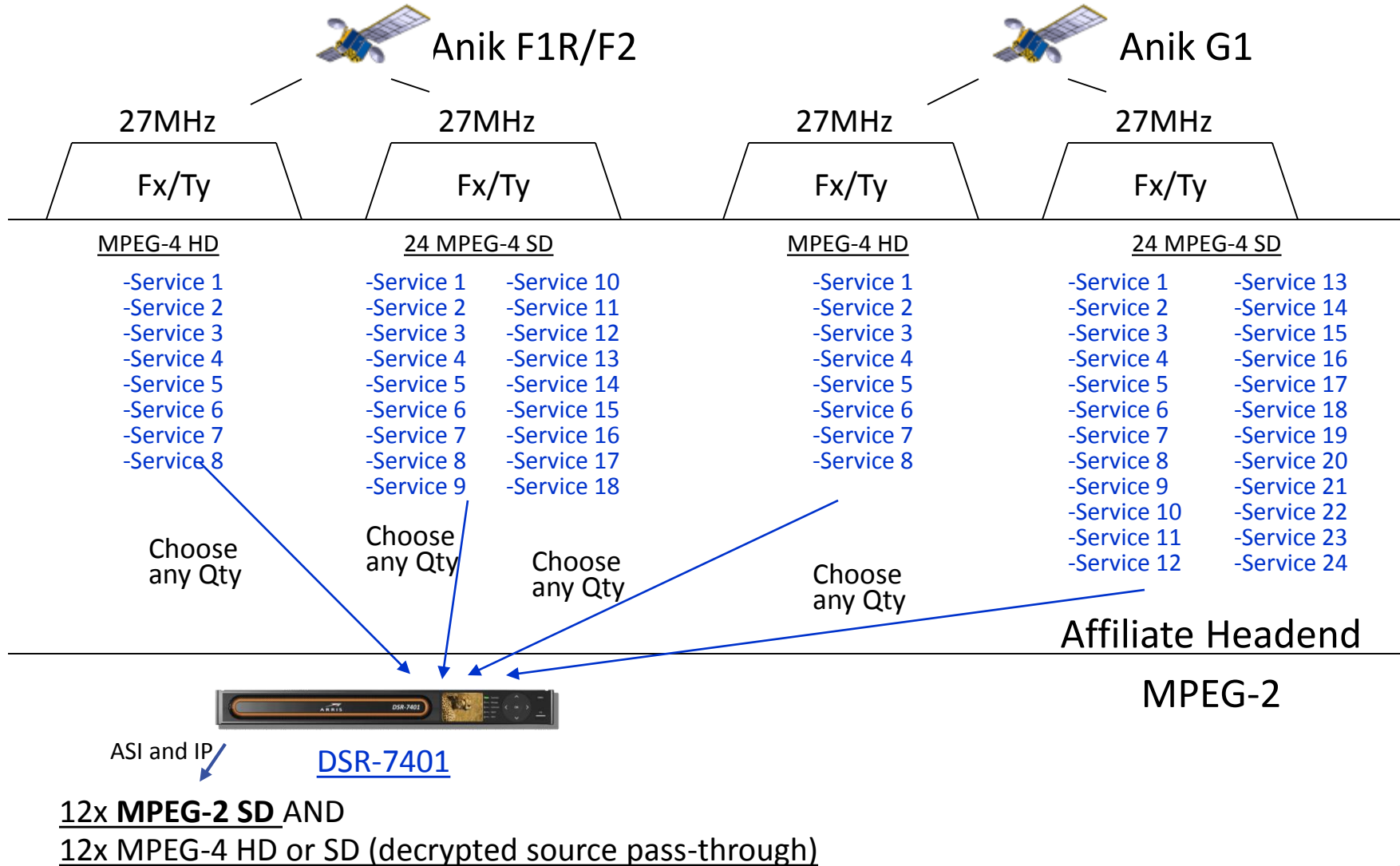
- Use Case 5 – Transcode

MPEG-4 HD/SD or Baseband Output Use Case – **DSR-4440/4460**

- Use Case 6 – Pass-through or Decode

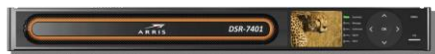
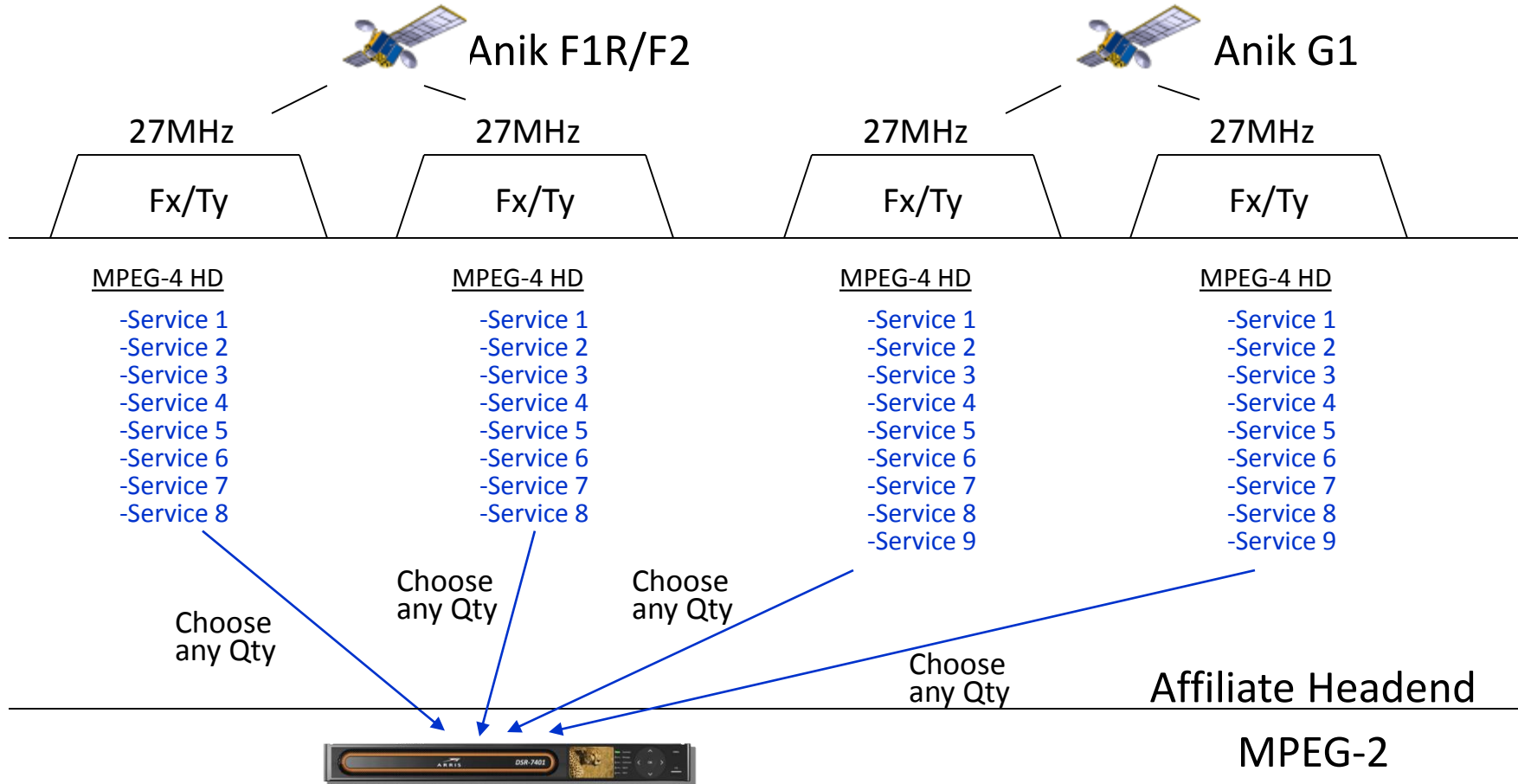
Use Case 1

MPEG-2 SD from MPEG-4 HD/SD



Use Case 2

MPEG-2 HD/SD from MPEG-4 HD



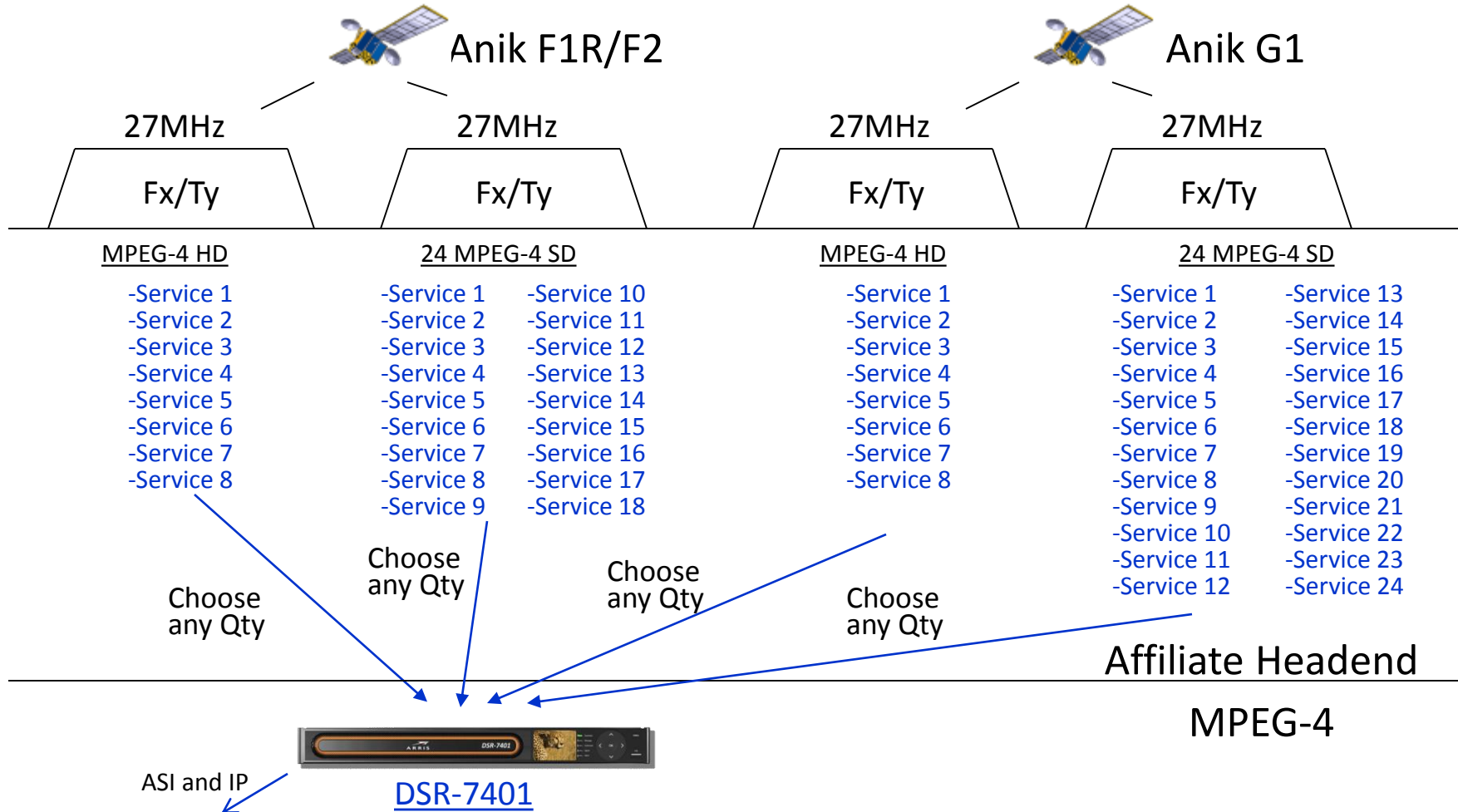
ASI and IP

[DSR-7403, 7412](#)

3x or 12x MPEG-2 HD AND
3x or 12x MPEG-2 SD AND
3x or 12x MPEG-4 HD (decrypted source pass-through)

Use Case 3

MPEG-4 SD from MPEG-4 HD/SD



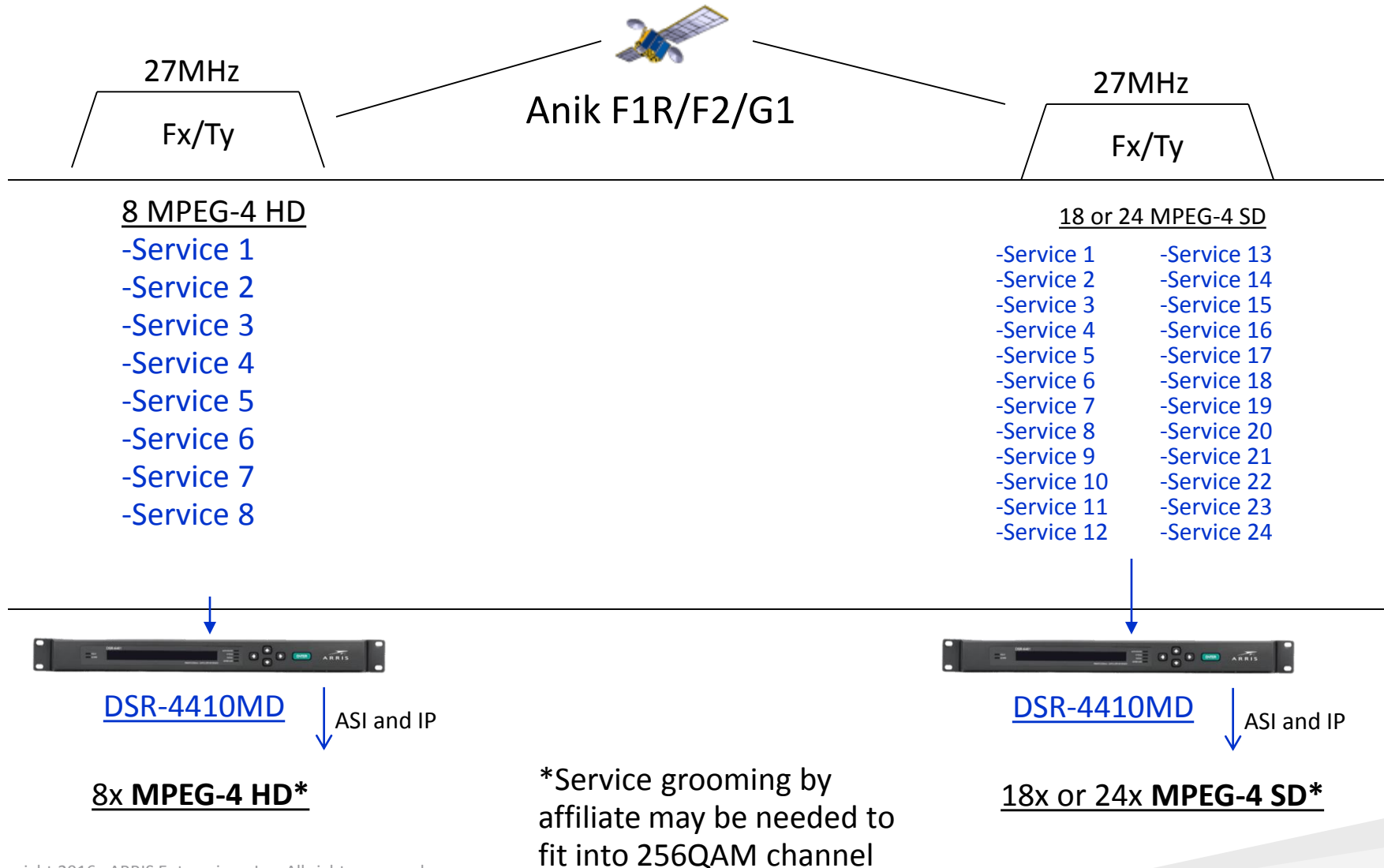
12x MPEG-4 SD AND
12x MPEG-4 HD* (decrypted source pass-through)

* For those sources in HD

Use Case 4

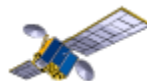
MPEG-4 HD from MPEG-4 HD

MPEG-4 SD from MPEG-4 SD



Use Case 5

Single Channel Transcode



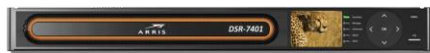
Anik F1R/F2

27MHz

Fx/Ty

MPEG-4 HD/SD

- Service 1
- Service 2
- Service 3
- Service 4
- Service 5
- Service 6
- Service 7
- Service 8



ASI and IP

DSR-7403

- 1x MPEG-2 SD AND
- 1x MPEG-2 HD* AND
- 1x MPEG-4 (HD or SD – same as source)

* Requires source to be in HD

Use Case 6

Single Channel Pass-through or Decode



Anik F1R/F2

27MHz

Fx/Ty

MPEG-4 HD/SD

- Service 1
- Service 2
- Service 3
- Service 4
- Service 5
- Service 6
- Service 7
- Service 8

DSR-4460



HD/SD-SDI Composite ASI IP

1 service, provided in ASI, IP, analog composite, and HD/SD-SDI output formats

DSR-4440



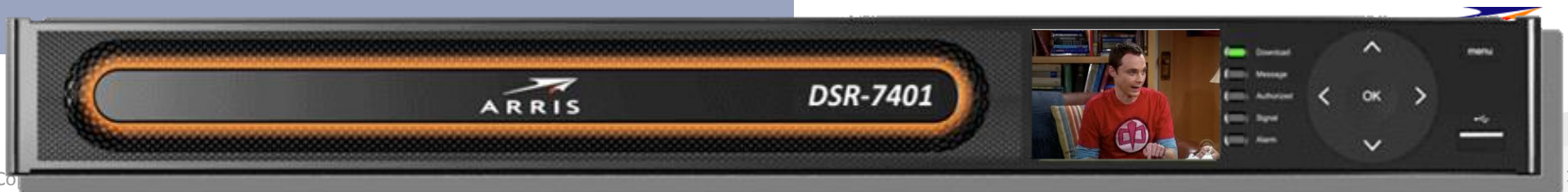
IP ASI Composite

1 service, provided in ASI, IP, and analog composite output formats

High Density SD Transcoder

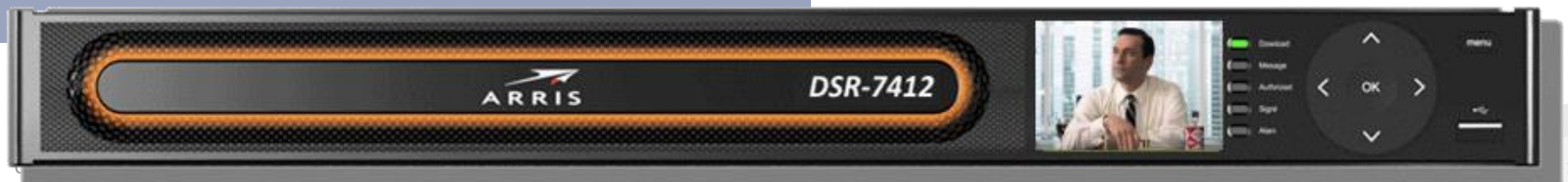
- Cost effective conversion of MPEG-4 HD or SD services to MPEG-2 or MPEG-4 SD
- Simultaneously tunes and transcodes services from 4 transponders
- Decrypts and transcodes up to 12 HD/SD input services
- HD Pass-through of source video service
- Next generation video quality
- Front panel menu system with integrated video monitor
- Cue tone and SCTE-35 support for ad insertion

- Transcodes up to 12 HD/SD video inputs to 12 SD outputs
- HEVC/MPEG-2/MPEG-4 decoding
- 24 Hz, 50Hz and 60Hz video decoding
- Statistical Multiplexing of SD output
- 4 active RF tuners
- 8PSK Turbo Code demodulation
- ASI/GigE input and output
- Uplink control of configuration parameters
- Front panel and web browser configuration control



High Density HD/SD Transcoder

- Transcodes up to 12 MPEG-4 HD input services to MPEG-2 HD and SD outputs
 - Simultaneously tunes and transcodes services from 4 transponders
 - Pass-through of source video service
 - Next generation video quality
 - Front panel menu system with integrated video monitor
 - Cue tone and SCTE-35 support for ad insertion
- Up to 12 HD video inputs to 12 HD and 12 SD outputs
 - HEVC/MPEG-2/MPEG-4 decoding
 - 24 Hz, 50Hz and 60Hz video decoding
 - Statistical Multiplexing of HD/SD outputs
 - 4 active RF tuners
 - 8PSK Turbo Code demodulation
 - ASI/GigE input and output
 - Uplink control of configuration parameters
 - Front panel and web browser configuration control



Headend friendly

DSR-7401



86 Watts
1RU

DSR-7412



215 Watts
1RU

Compare to....

DSR-6401



1,800 Watts
12RU

DSR-6404

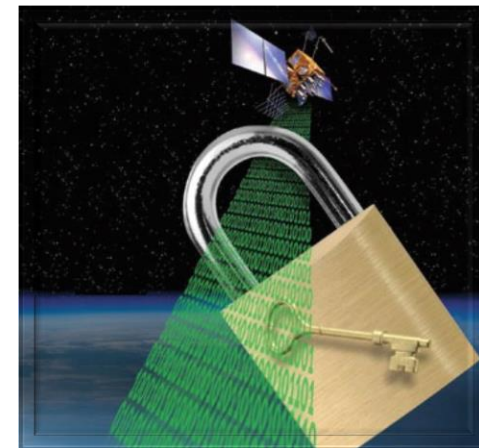


1,050 Watts
3RU

Multi-Decrypter

- Decryption of entire transport stream
- Support for DVB-S2, QPSK/8PSK Turbo modulation
- Pass through decrypted stream containing MPEG-2/4 in HD and/or SD

- Decryption of up to 64 services
- DVB-S2, DC-II QPSK/8PSK Turbo
- MPEG-2/4 – SD or HD
- Inputs
 - RF
 - ASI
- Outputs
 - ASI
 - Gig-E
- 1RU chassis



Single Service IRD

- Bandwidth efficiency through 8PSK Turbo demodulation and MPEG-4 decoding
 - ASI, Gig-E and composite video outputs allow flexibility in signal distribution
 - ISOC data output
 - SD down-conversion for composite output
- DVB-S2, DC-II QPSK/8PSK Turbo
 - MPEG-2/4 – SD or HD
 - SD down conversion with AFD
 - RF/ASI inputs
 - Outputs
 - ASI
 - Gig-E
 - Composite analog
 - NTSC/PAL output
 - DC II subtitle overlay
 - Video Formats
 - 525 Line – NTSC and PAL-M
 - 625 Line – PAL-Nc and PAL-625
 - Set-based retune



Single Service IRDs

- Bandwidth efficiency through 8PSK Turbo demodulation and MPEG-4 decoding
 - ASI, Gig-E and composite video outputs allow flexibility in signal distribution
 - Includes HD/SD-SDI output for high quality turn-around of HD or SD services
 - ISOC data output
 - SD down-conversion for composite output
- DVB-S2, DC-II QPSK/8PSK Turbo
 - MPEG-2/4 – SD or HD
 - SD down conversion with AFD
 - RF/ASI inputs
 - Outputs
 - ASI
 - Gig-E
 - SD/HD-SDI
 - Composite analog
 - NTSC/PAL output
 - DC II subtitle overlay
 - Video Formats
 - 525 Line – NTSC and PAL-M
 - 625 Line – PAL-Nc and PAL-625
 - Set-based retune

