DV3358
Satellite Video Receiver IRD

For over 20 years, Atlanta DTH, Inc. has been a leading supplier of cable and satellite DTH communications equipment and an innovator of ground-breaking telecommunication systems for IPTV, OTT, DTT and other media related applications. Our solutions provide the tools for content broadcasters to expand their service offerings to existing and new customers, allowing them to expand and develop their markets.

We strive to meet the technological goals of our customers, be they in broadcast, telecommunications or IPTV markets. Our engineering team has custom-engineered many products to meet specific demands. We pride ourselves on our innovative solutions that meet the many challenges of this fast-changing global market.

ADTH is headquartered in Atlanta with a USA West Coast office located in Los Angeles. Both locations are staffed with engineering, sales, and customer service personnel to support our customers across North America. We also have offices in Brazil, Taiwan, Singapore, China and South Korea.

Introducing the DV3358

The DV3358 Satellite Video Receiver IRD is a simple 1 RU rack mounted Integrated Receiver-Decoder.

Features

- L-band input and loop output
- DVB-S/S2 quaternary phase shift keying (QPSK) and eight phase shift keying (8PSK) demodulation
- Support for Conista content protection system
- Aspect ratio conversion (4:3, 16:9) with Active Format Descriptor (AFD) control for SD and HD programs
- AFD support for down-conversion of HD programs with aspect ratio conversion
- MPEG audio decoding
- Field upgradeable software and security
- DVB-VBI and SCTE-127 support
- 4:2:0/4:2:2 8-bit and 10-bit video
- HEVC, MPEG-4, MPEG-2 decoding
- Multichannel decryption

Specifications

Form Factor 1 RU rack mounted chassis

Management Ports 1 Ethernet web-based management portal

Power
Internal Power Supply
Voltage Range 100 V to 240 V AC
Line Frequency 50/60 Hz

System
Standards HEVC, MPEG-2, MPEG-4, and DVB compatible
Demodulation DVB-S QPSK, DVB-S2 QPSK and 8PSK

Tuner
Number of RF inputs 1
Input level -25 to -65 dBm per carrier
Frequency range 950 to 2150 MHz
Symbol rate range DVB-S: 1.0 to 45 Msymbols per second
DVB-S2 10.0 to 30 Msymbols per second
1.0 to 10 Msymbols per second
Carrier capture range ≥ ±3.0 MHz (1-10 Msymbols)
≥ ±5.0 MHz (10-30 Msymbols)

Satellites C-band and Ku-band
Input impedance 75 ohms

Outputs

ASI 1

3G-SDI 1
HD to SD down-conversion capable

BNC
Video standard NTSC and PAL B/G/I/D/M/N
Maximum video resolution 720 x 480 and 576

Analog Audio Output
Number of channels 2 RCA stereo pair
Audio decompression MPEG
HE-AAC single stereo pair
AC3 bypass
Output level Output is adjustable at the web-based management interface by ±6.0 dB (ref. 100 kilohms) and is factory calibrated to +18 dBu (at full scale).
Dynamic range 85 dB (CCIR average response meter [ARM] weighting)
Crosstalk 80 dB at 1 kHz (typical)

Aspect ratio
Display aspect ratios 4:3, 16:9
Aspect ratio conversions for down-conversions 4:3: 16:9
Aspect ratio conversions for SD programs 4:3: 16:9

VBI Yes
NTSC NTSC lines 10 to 22, fields 1 and 2
Pass Line 21 closed captions
Pass Line 9 for HD

PAL PAL lines 7 to 22, fields 1 and 2
SCTE 35 GPI Output

Conditional Access
DVB descrambling CA method: multicrypt and simulcrypt

