

SuperFlex® Enterprise Video

DVB-S/S2 Satellite Receiver-Decoder

Advantages

- Content management and delivery
 - 500 GB HDD
- Production Manager support
- Irdeto DVB-CAS
- BISS Decryption

Features

- Silent Operation
- Highly Reliable (no fans)
- MPEG-2 and MPEG-4 AVC (H.264)
- DVB-S and DVB-S2
- HD and SD
- 16:9 and 4:3 capable
- On screen display
- EPG support
- Ethernet input/output
- VOD support
- Streaming IP capable
- Streaming video output to connect PC viewers
- FTP software upgrade
- Over-the-Air upgradable
- Playlist
- Time scheduled programming of files

A cost effective solution for digital video distribution, the SuperFlex Enterprise Video provides the power and flexibility to address the demanding requirements of e-cinema, business television and distance learning networks.

The SuperFlex Enterprise Video is DVB-S compliant and designed to receive and decode HD and SD video with associated audio. This receiver is compatible with PES transport, and IP transport of the video and audio streams.

Professional Video/Audio Decoding

The SuperFlex Enterprise Video can decode HD or SD video encoded with MPEG-2 and MPEG-4 AVC.

Video-On-Demand Support

The SuperFlex Enterprise Video has full support for Video-On-Demand (VOD). Users can access the network VOD server over the local LAN or the Internet to stream video to the receiver. This allows the receiver to access satellite signals and stored video files for business training applications and distance learning support.

Streaming IP Input and Output

The SuperFlex Enterprise Video has the ability to receive multicast IP streams over the Internet or a LAN. The receiver can also decode and display live transport stream or file based video while simultaneously transmitting the same content as TSolP on the Ethernet port.

Over-the-Air and FTP Upgrade

The SuperFlex Enterprise Video has the ability to receive firmware upgrades over satellite. The receiver has the ability to access software upgrades via FTP to ensure that the software is always up to date.

Network Control of Receivers

IDC's Net Manager™ installed at the headend allows system operators the ability to remotely control receiver frequency, symbol rate, FEC, LNB polarization and other receiver parameters over the satellite and via a terrestrial IP connection. This adds a whole new level of flexibility to full time and partial use applications.

Conditional Access Option (CAS)

The SuperFlex Enterprise Video has an option to include several types of DVB Conditional Access. BISS-1 comes with the base unit. Irdeto DVB-CAS is available as an option (an extra license is required). A smart card is required and would be inserted in the rear smart card reader slot.

Content Delivery and Management

The SuperFlex Enterprise Video contains a 500 GB HDD, an IDC Datacast XD™ client (up to 5 Mb/s) and an IDC Production Manager™ client. This allows for the downloading of media files over the satellite channel and the remote control or local playout by the operator.

BISS Decryption

BISS-1 decryption is included on all SuperFlex Enterprise Video receivers.

TECHNICAL SPECIFICATIONS—SuperFlex Enterprise Video

VIDEO/AUDIO CAPABILITIES	
Video Decoding	MPEG-2 MP@HL MP@ML MPEG-4 Part 2 ASP@L5 (720p) MPEG-4 Part 10 (H.264) BP@L3 MP@L4.0 HP@L4.0 WMV-9 MP@ML AP@L3
Video Output Resolution	1080p 60 1080p 50 1080i 60 1080i 50 720p 60 720p 50 576i 50 480i 60
Chrominance Subsampling	MPEG-2, MPEG-4 AVC, VC-1 4:2:0 MPEG-2 4:2:2 (natively)
Audio Decoder	Dolby® Digital 5.1 Dolby® Digital Plus 7.1 Dolby® True HD 7.1 MPEG Layers I, II and III (MP3) MPEG-2 and MPEG-4 AAC-LC5.1, HE-AAC5.1 WMA-9 2.0 WMA-9 Pro 5.1
RF INPUT	
Frequency Range	950 to 2150 MHz
Frequency Tuning Steps	Synthesized 1 Hz steps
AFC Range (drift tracking)	+2 MHz maximum
Maximum input Level	-25 to 65 dBm @ 27.5 Ms/s
Connector	Type-F, female
Impedance	75 ohms, unbalanced
LNB DC Power	+18 VDC maximum (horizontal polarity), or +13 VDC at 500 mA (vertical polarity) center conductor positive, short circuit protected
LNB Control	DiSEqC 1.0 and 22 kHz
LNB Requirements	DRO type or PLL type

DVB-S MODE	
Symbol Rate	QPSK 1 to 45 MS/s
Modulation	QPSK
FEC Type	DVB concatenated Viterbi 1/2, 2/3, 3/4, 5/6, 7/8 Reed-Solomon 204/188
Alpha Factor	0.35
DVB-S2 MODE	
Demodulation/Symbol Rate	QPSK 1 to 45 MS/s
FEC Type	Concatenated, LDPC and BCH QPSK 1/4, 1/3, 2/5, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 (1/4, 1/3, 2/5 normal blocks only)
Alpha Factor	0.20, 0.25, 0.35
FRONT PANEL INDICATORS	
<ul style="list-style-type: none"> • 6 keys: Menu, CH+/CH-, VOL+/VOL-, OK • LED status indicator (power/standby/signal) • Work status and LCD display 	
CONNECTIONS	
Ethernet	<ul style="list-style-type: none"> • RJ45-Ethernet on 10/100 Base-T • IP address setup: DHCP, PPPoE or static IP • IP multicast: TS over UDP, TS over RTP • IP protocol: TCP/IP, UDP, DHCP, DNS, HTTP
Video	<ul style="list-style-type: none"> • HDMI with embedded audio • Composite on RCA female • Component on RCA
Audio	<ul style="list-style-type: none"> • Analog: left and right on 2x RCA female • Digital: S/PDIF coaxial on RCA female
Smart Card Reader	ISO 7816-1/2/3/4 (1 slot)
LNB	<ul style="list-style-type: none"> • LNB IN • LNB OUT (Loop-thru)
POWER REQUIREMENTS	
Power Supply type	Internal with detachable line cord
Supply Voltage	90 to 240 VAC, 50 or 60 Hz
Power Consumption	40 Watts maximum
PHYSICAL PARAMETERS	
Chassis	1RU rackmount
Dimensions (H, W, D)	4.5 cm x 48 cm x 36 cm (1.75" x 19" x 14")
Weight	1.9 kg (4 lbs.)
ENVIRONMENTAL CONDITIONS	
Operating Temperature	0° to 40° C (32° to 104° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)
Humidity	Maximum 90% relative, non-condensing



International Datacasting Corporation (TSX:IDC) is a global leader in providing IP-based datacasting solutions for the distribution of broadband multimedia content. IDC has a broad portfolio of advanced technology products for implementing a wide range of broadband content contribution and distribution networks. IDC's products are in demand for radio and television broadcast networks, distance learning, digital satellite news gathering and sport contribution, digital signage, digital cinema, IPTV distribution and other applications.

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