

SuperFlex® Pro IPTV™

Applications

- Telco's
- Multiple dwelling units (MDUs)
- Planned communities
- Hospitality environments
- Multi-tenant units (MTUs)
- Private cable operators

Features

- High density design
- Multiple Decryptions
 - DVB CAS
 - BISS
 - IDC FlexKey
- Redundancy
 - Blades
 - Power supply's
- Multi-carrier support per blade
- DVB S1 and S2
- Net Manager support
- 6U and 3U chassis
- MPTS support



Ideal for Telco's MDUs and other points of presence where space is limited, the SuperFlex Pro IPTV is a cost effective and easy to use satellite receiver solution that forms the foundation for any reliable broadcast quality IPTV service.

The SuperFlex Pro IPTV is designed to generate additional revenues for service providers by working with already installed traditional DTN/DBS and CATV broadcast networks. IDC can also provide a complete custom configured end-to-end DVB-S2 IPTB system from scratch.

The SuperFlex Pro IPTV 6U chassis supports up to 14 dual carrier hot-swappable satellite receiver blade modules (24+4 transponders) in a single chassis with several built-in decryption options.

The SuperFlex Pro IPTV 3U chassis support up to 4 dual carrier hot-swappable satellite receiver blade modules (6+2 or 8+0 transponders) in a single chassis.

Future Proof Front-End

Dynamically select DVB-S, DVB-S2, or 8PSK Turbo Code for optimal modulation and FEC. Each card can decrypt data and output IPTV streams via dual Gigabit Ethernet interface.

Network Management

Local or remote configuration of the full SuperFlex Pro IPTV using a standard web browser from anywhere with IP connectivity.

Self-Contained Redundancy

Dual redundant hot-swappable power supplies and M:N demodulator redundancy help ensure maximum network uptime.

Encryption and Conditional Access

SuperFlex Pro IPTV supports a wide range of options for network security and conditional access including DVB Common Interface CAS, BISS and IDC's FlexKey decryption, a proved 128-bit AES encryption.

Modular and Configurable

The SuperFlex Pro IPTV is the next generation IPTV product from IDC. It saves power, time and space. The unique blade design provides a 75% space usage reduction, with up to 28 transponders in a 6U rack, and provides a 50% power saving over previous generations of systems. The design of the SuperFlex Pro IPTV is highly modular, allowing the user to determine the modules and configuration best suited to the needs of the network and the content to be delivered. Each module is plug and play and hot-swappable.

SuperFlex Pro IPTV Chassis

There are two different chassis configurations—all interoperable on the same network with all modules interchangeable between units. The 6U chassis can accommodate up to 14 blades (24 transponders plus 4 for redundancy) and is intended for full sized networks—typically 300 or more channels of SD TV. The 3U chassis configurations support up to 4 blades (8 transponders) are for smaller numbers of SD channels or for complementary HD channel offerings.

SuperFlex Pro IPTV Blade

Provides dual carrier operation, dual Ethernet outputs, variety of decryption options and M:N redundancy. Fully compatible and interoperable with IDCs SuperFlex® Pro Series™ Receivers, and Net Manager™.

SuperFlex Pro IPTV Chassis—Power Supply

Hot-swappable, dual redundant, worldwide power and over rated for longer life.

SuperFlex Pro IPTV Chassis—Controller Card

Single access point for management and control, front panel interface for input, integrated hard drive and hot-swappable.

TECHNICAL SPECIFICATIONS—SuperFlex Pro IPTV

MODEL	DESCRIPTION
SuperFlex Pro IPTV Chassis—3U	Includes Controller and 2 Power Supplies
SuperFlex Pro IPTV Chassis—6U	Includes Controller and 2 Power Supplies
SuperFlex Pro IPTV Blade	Includes 2 Tunes, 2 CAMs, BISS and FlexKey Encryptor Support

SUPERFLEX PRO IPTV CHASSIS—POWER SUPPLY

- Worldwide voltage range: 85-264 VAC, -48 VAC optional
- 1 or 2 per chassis with current sharing and hot-swappable
- Redundant applications
- Low conducted and radiated EMI (EN 55022 class B)
- UL recognized to UL 60950/CSA 22.2 No 60950-00
- TUV approved to EN 60950-1

SUPERFLEX PRO IPTV CHASSIS—CONTROLLER CARD

- Provides monitoring and control of blades and power supplies
- 4 x 20 LCD display with keypad
- Hard disk for status logging
- Front mount Gigabit Ethernet for remote access
- Hot-swappable

SUPERFLEX PRO IPTV CHASSIS—6U

- 14 slots for SuperFlex Pro IPTV Blades
- 2 Power Supply slots for single or redundant power supply configurations
- Controller Card slot
- Back plane front power and communications between Blades, Power Supplies and Controller Card

PHYSICAL PARAMETERS

Dimensions (H, W, D)	26.6 cm x 48 cm x 40 cm (10.5" x 19" x 15.75")
Weight (Full Load)	38 kg (84 lbs.)

SUPERFLEX PRO IPTV CHASSIS—3U

- 4 slots for SuperFlex Pro IPTV Blades
- 2 Power Supply slots for single or redundant power supply configurations
- Controller Card slot
- Back plane front power and communications between Blades, Power Supplies and Controller Card

PHYSICAL PARAMETERS

Dimensions (H, W, D)	13.3 cm x 48 cm x 40 cm (5.25" x 19" x 15.75")
Weight (Full Load)	14 kg (33 lbs.)



Chassis—3U



Chassis—6U

SUPERFLEX PRO IPTV BLADE

RF

Number of Tuner Inputs	2
Demod Capability	<ul style="list-style-type: none"> • DVB-S: QPSK, 1-45 Ms/s • DVB-S2: QPSK/8PSK, 5-30 Ms/s • Turbo code: QPSK/8PSK, 2-30 Ms/s
Frequency Range	950 to 2150 MHz
AFC Range (drift tracking)	± MHz maximum
Maximum Input Level	-35 to -65 dBm
Connector	2 - Type-F, female
Impedance	75 ohms, unbalanced
LNB Requirement	<ul style="list-style-type: none"> • DRO type for high data rates with stability ± 2 MHz maximum • PLL type for low data rates with stability ± 25 kHz maximum

IP

Number of Interfaces	2
Connector Type	RJ-45 Ethernet
Electrical Interface	2 - 10/100/1000 Base-T (Gigabit)
IP Data	Up to 160 Mb/s IPTV output fully addressable and controllable by Net Manager via Controller Card

LED Indicators "A" and "B" Indicates locked or unlocked status of each RF demodulator

LED Indicators "S1" and "S2" Indicates status of each demodulator

Decryption DVB CAS (up to 8 services per CAM)
BISS
FlexKey (128 bit AES)

SPECIFICATIONS FOR ALL PRODUCTS

ENVIRONMENTAL CONDITIONS

Operating Temperature	0° to 50° C (32° to 122° F)
Storage Temperature	-20° to 70° C (-4 to 158° F)
Humidity	Maximum 95% relative, non-condensing
Compliance	RoHS



Controller Card



Power Supply



Blade



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