

SUPERFLEX

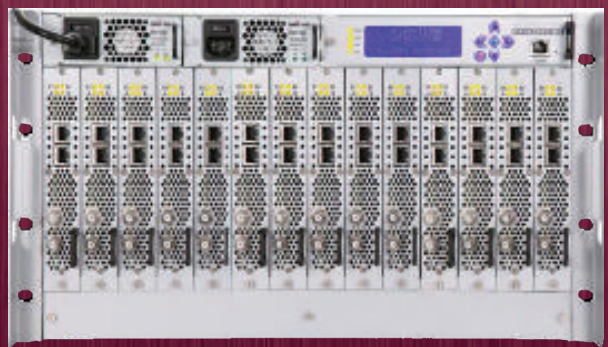
# SFX ProIPTV™

IPTV SATELLITE  
DELIVERY NETWORKS

The most modular and scalable IPTV distribution solution

Designed specifically for:

- Telco's
- Multiple dwelling units (MDU's)
- Planned communities
- Hospitality environment
- Multi-tenant units ( MTU's)
- Private cable operators



## Introducing the SFX ProIPTV

The SFX ProIPTV is a cost-effective and easy to use satellite receiver solution forming the foundation for any reliable broadcast-quality IPTV service. The SFX ProIPTV provides low cost of ownership, is easy to scale, easy to deploy and easy to manage.

The SFX ProIPTV 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.

**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:** IDC's NetManager2 controls any mix of IDC receivers over the satellite while SNMP tools manage the receivers using MIB-II or enterprise MIB for easy remote control and monitoring.

**Web Browser Interface:** local or remote configuration of the full SFX ProIPTV 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.

## Choice of Encryption & Conditional Access Systems

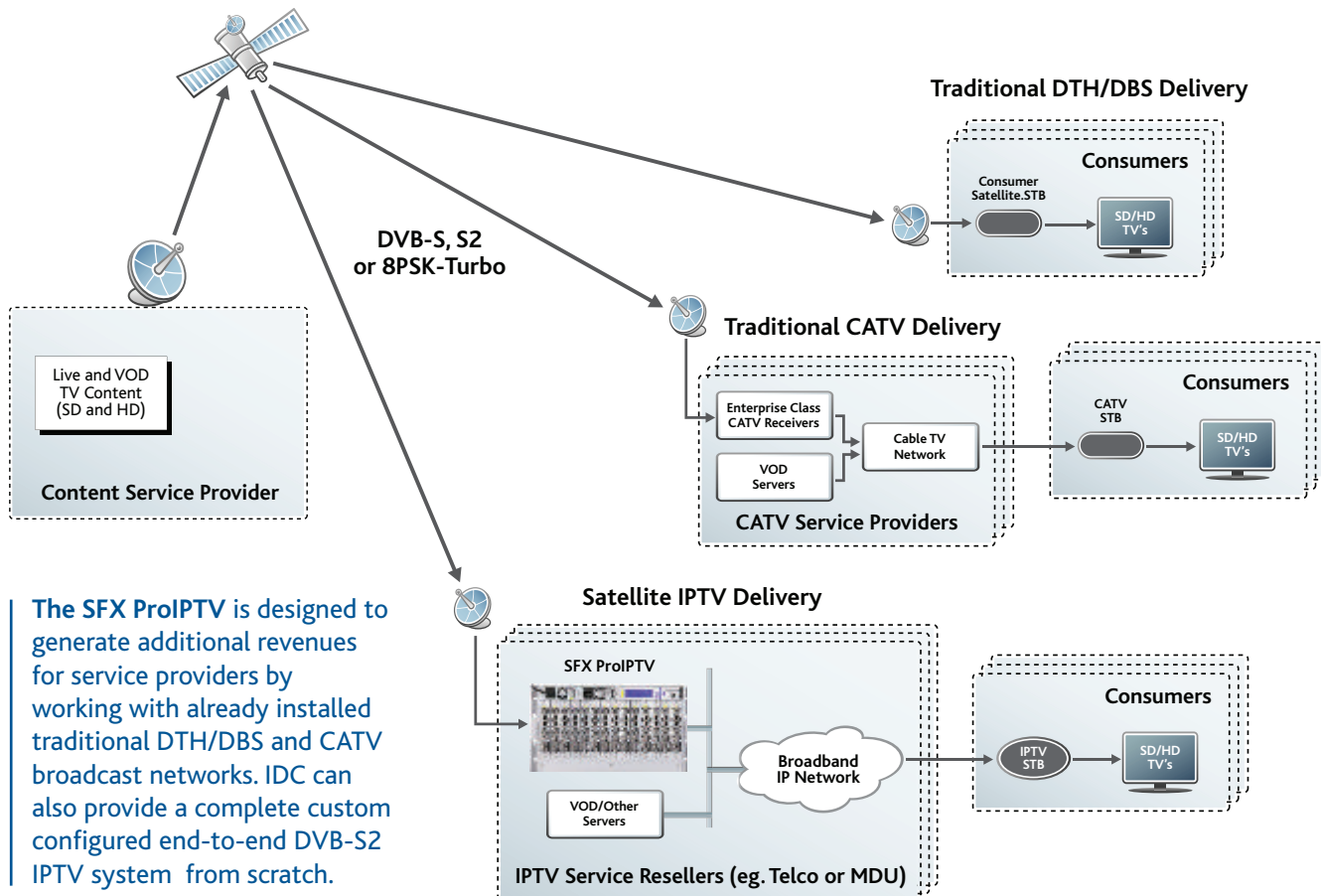
ProIPTV supports a wide range of options for network security and conditional access:

**Irdeto Cyphercast/PISYS** – the industry's leading IP encryption and CAS system. Features both 56-bit and 128-bit encryption and extensive Subscriber Management (SMS).

**DVB Common Interface CAS** – SuperFlex supports DVB-CAS systems, including: Irdeto, Nagra, NDS and others using CAMs and SmartCards.

**IDC FlexKey** – IDC's proven 128-bit AES encryption. The decryption keys are stored in a secure internal device in the receiver. No smart card is required. Ideal low-cost or entry-level solution.

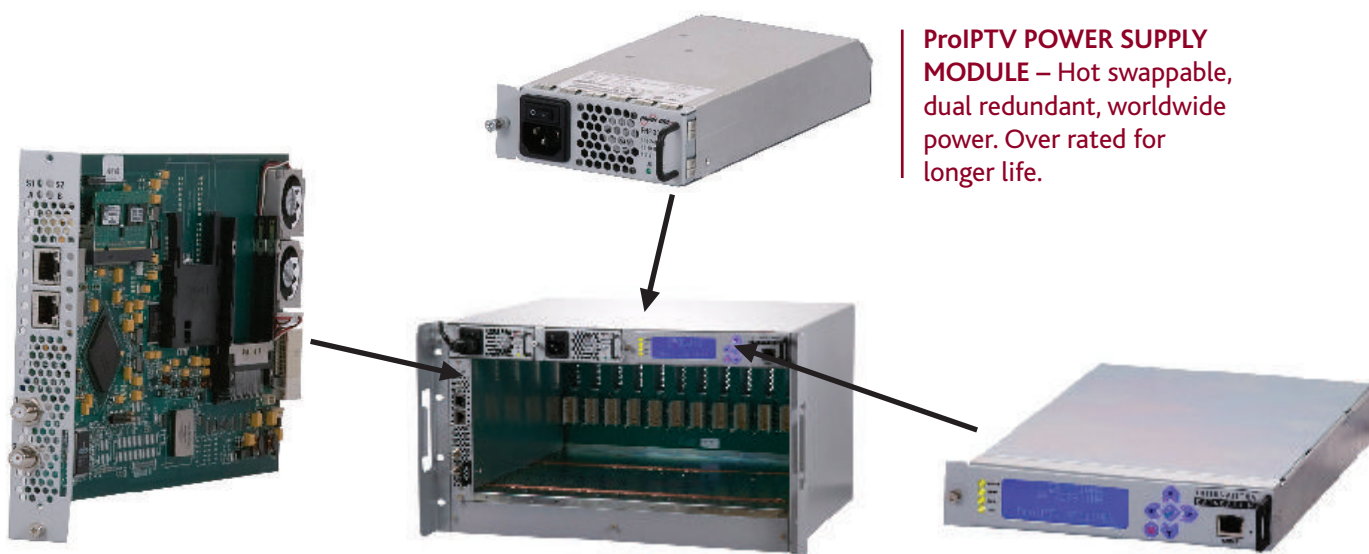
**BISS** – Industry standard encryption supported by many modulators.



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

## Highly modular and configurable to suit every need

The SFX ProIPTV is the next-generation IPTV product from IDC. Built on IDC's experience with deployed in-the-field IPTV networks, the SFX ProIPTV is ideal for Telcos, MDUs and other points of presence where space is limited. The SFX ProIPTV saves power, time, and space. The unique "blade" design provides a 75% space usage reduction, with up to 28 transponders in a 6RU rack space, and provides a 50% power saving over previous generations of systems. The design of the ProIPTV 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.

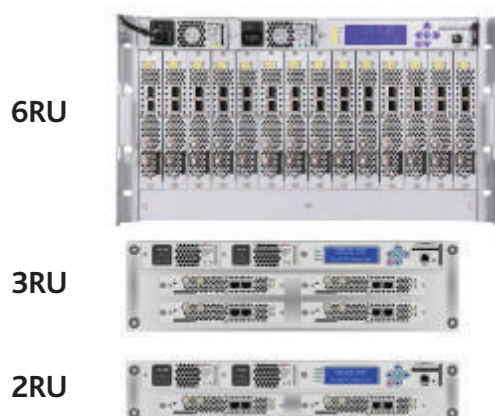


**ProIPTV SFX 3106 RECEIVER BLADE** – IDC's fourth generation DVB-S/S2/8PSK-Turbo SFX satellite receiver on a single hot-swappable blade. Provides dual carrier operation, dual Ethernet outputs, variety of decryption options and M:N redundancy. Fully compatible and interoperable with IDC's full SuperFlex DVB-IP product line, including NetManager and Datacast XD. Up to 14 blades (28 transponders in a single 6RU high chassis).

**ProIPTV POWER SUPPLY MODULE** – Hot swappable, dual redundant, worldwide power. Over rated for longer life.

**ProIPTV CHASSIS CONTROLLER MODULE** – Single access point for management and control, front panel interface for input, and integrated hard drive. Hot swappable.

## Alternate Chassis Configurations



The SFX ProIPTV has three different chassis configurations — all interoperable on the same network and with all ProIPTV modules interchangeable between units. This variety gives service providers the ability to provide a scalable range of IPTV service offerings, from small to very large. For example, a six transponder (three SFX3106 blades) can provide up to 50 MPEG4 HD channels of IPTV television.

The 6RU 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 television. The 2RU and 3RU chassis configurations are for smaller numbers of SD channels or for complementary HD channel offerings.

# SFX ProIPTV TECHNICAL SPECIFICATIONS

## ProIPTV POWER SUPPLY MODULE

- Worldwide voltage range, 85-264 VAC
- 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

## ProIPTV CHASSIS CONTROLLER MODULE

- Provides monitoring and control of blades and power supplies
- 4x20 LCD display with keypad
- Hard disk for status logging
- Front mount Gigabit Ethernet for remote access
- Hot-swappable

## ProIPTV CHASSIS

- 6U: 14 slots for ProIPTV Blade Modules
- 3U: 4 slots for ProIPTV Blade Modules
- 2U: 2 slots for ProIPTV Blade Modules
- 2 power supply slots for single or redundant power supply configurations
- Chassis controller slot
- Back plane for power and communications between blades, power supplies and chassis controller
- Cable pass through to allow front cables to be routed to a rack with existing rear cabling

**Width and Depth:** 19.0" (W) x 15.75" (D)

**Height and Weight (full load):** 6RU (10.5") - 84lbs (38 kg)  
3RU (5.25") - 33 lbs (14 kg)  
2RU (3.5") - 24 lbs (11 kg)



## About International Datacasting

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 marketed under the names SuperFlex, Datacast XD, Tiernan and PROLine for implementing a wide range of satellite and other broadband content contribution and distribution networks. IDC's products are in demand for radio and television broadcast networks, distance learning, digital signage, digital cinema, IPTV distribution and other multimedia applications. IDC is headquartered in Ottawa, Canada, operates in Europe through its wholly owned subsidiary PROLine B.V. in Arnhem, the Netherlands and in the US through its Tiernan operations in San Diego California. The Company is international in scope with installations in over 100 countries worldwide, has regional sales and service offices in the UK, Australia, Singapore and China as well as an established international network of value-added partners and distributors.

## ProIPTV SFX3106 RECEIVER BLADE MODULE

### RF

<b>Number of Tuner Inputs:</b>	2
<b>Demod Capability:</b>	DVB-S: QPSK, 1 - 45 Ms/s DVB-S2: QPSK/8PSK, 5 - 30 Ms/s Turbo code: QPSK/8PSK, 2 - 30 Ms/s
<b>Frequency Range:</b>	950 to 2150 MHz
<b>AFC Range (drift tracking):</b>	±2 MHz maximum
<b>Maximum Input Level:</b>	-35 to -65 dBm
<b>Connector:</b>	Type-F, female (qty 2)
<b>Impedance:</b>	75 ohms, unbalanced
<b>LNB Requirement:</b>	DRO type for high data rates with stability ±2 MHz maximum, PLL type for low data rates with stability ±25 kHz maximum

### IP

<b>Number of Interfaces:</b>	2
<b>Connector Type:</b>	RJ-45 Ethernet
<b>Electrical Interface:</b>	two 10/100/1000 Base-T (Gigabit)
<b>IP Data:</b>	up to 160 Mb/s IPTV output fully addressable and controllable by NetManager via chassis controller
<b>LED Indicators "A" and "B":</b>	Indicates locked or unlocked status of each RF demodulator
<b>LED Indicators "S1" and "S2":</b>	Indicates status of each demodulator

## GENERAL SPECIFICATIONS (ALL MODULES)

<b>Operating Temperature:</b>	0 °C to +50 °C
<b>Storage Temperature:</b>	-20 °C to +70 °C
<b>Humidity:</b>	Maximum 95% relative, non-condensing
<b>Environmental Compliance:</b>	RoHS

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