INTERNATIONAL DATACASTING

SuperFlex® Pro Data™ Series

Data Satellite Receivers

Applications

- IPTV
- Digital cinema
- Streaming media
- Multimedia file transfer
- Distance learning
- Financial and news distribution
- Private Data Networks
- Internet access

Features

- Datacast XD™ client included
- DVB-S, DVB-S2 or IP input
- File decryption
- BISS

Options

- Decryption implementation
  - FlexKey decryption*
  - DVB Common Interface (Pro Data Only)

* Check Availability

Providing the power and flexibility for next-generation network applications, the SuperFlex Pro Data Series Receivers are ideal for small to large network applications that need a satellite receiver with the built-in power of a router appliance.

High Performance

The receivers can be customized by choosing DVB-S or DVB-S2, the modulation and FEC best suited for the application and the operating budget. The SuperFlex Pro Data Series can filter up to 250 PIDs, decrypt data and output packets via the GbE RJ-45 Ethernet interface.

The SuperFlex Pro Data Series has two available models: **SuperFlex Pro Data**, the standard model, can output up to a full transponder of data. While **SuperFlex Pro Data XTR**, the high performance model, has a more powerful processor which allows it to output two full transponders of data.

Routing Functionality

The receivers can be used to route and manipulate data via use of SNAT, DNAT, TTL, IP filtering and Firewall rules.

Dual Ethernet Outputs

Supports flexible and unique network configurations that separate multicast and network traffic onto different subnets, separate network traffic onto public and private subnets, or even route between two subnets.

Network Management

IDC's tested and tried addressable network control system Net Manager™ controls receivers over the satellite while industry standard 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 receiver using a standard web browser.

TECHNICAL SPECIFICATIONS—SuperFlex Pro Data Series

MODEL (* Check Availability)	DESCRIPTION	DVB-S SYMBOL RATE	DVB-S2 SYMBOL RATE	DECRYPTION OPTIONS (* Check Availability)
Pro Data*	• 1 Rack Unit • 1 L-Band Input • 1 RF Tuner	QPSK: 128 ks/s to 45 MS/s	QPSK/8PSK/16APSK: 128 ks/s to 45 MS/s *Normal frames 64,800 bits only*	FlexKey decryption (128 AES) * BISS DVB Common Interface CAS
Pro Data XTR	• 1 Rack Unit • 2 L-Band Inputs • 2 RF Tuners	QPSK: 1 MS/s to 45 MS/s	QPSK/8PSK: 1 MS/s to 30 MS/s	FlexKey decryption (128 AES) * BISS
Legacy Models*	Contact IDC to inquire about availability of legacy model (SFX3101 and SFX3102)			

SuperFlex Pro Data

SuperFlex Pro Data XTR

RF INPUT

Frequency Range	950 to 2150 MHz
Frequency Tuning Steps	Synthesized 1 Hz steps
AFC Range (drift tracking)	± 10% Symbol Rate up to ± 2 MHz
Maximum Input Level	-35 to -65 dBm
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 Requirement	• DRO type for high data rates, stability ± 2 MHz maximum • PLL type for low data rates, stability ± 25 kHz maximum

PANEL CONNECTORS/INDICATORS

2 Net Ports	• **Connector Type:** RJ-45 Ethernet • **Electrical Interface:** 2 - 10/100/1000 Base-T • **IP Data:** Full transponder rates
ASYNC Port	• **Connector Type:** DE-9P • **Electrical Interface:** RS-232 • **Asynchronous Rate:** Terminal Interface at 9.6 kb/s or data at 300 b/s to 115.2 kb/s
ASI Output (XTR Model has 2)	• **Connector Type:** BNC Female • **Electrical Interface:** DVB-ASI • **Filtering:** Complete DVB Transport Stream or up to 250 filtered PIDs • **Packet Size:** 188 bytes • **Data Rate:** Up to complete transport rate

FRONT PANEL INDICATORS

LCD display	Provides metrics and setup menus
Electrical Interface	Indicates locked or unlocked status of RF demodulator
Status LED	Indicates normal operation or fault and status of LNB
Control LED	Indicates authorization and data activity of the Net Manager NCC channel

DVB-S MODE

FEC Type	DVB concatenated, Viterbi Reed-Solomon
Modulation	QPSK 1/2, 2/3, 3/4, 5/6, 7/8
Alpha Factor	0.35

DVB-S2 MODE

FEC Type	Concatenated, LDPC and BCH QPSK 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9 8PSK 3/5, 2/3, 3/4, 5/6, 8/9 (9/10 for normal blocks only) 16APSK 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 (SFX Pro Data Only)
Alpha Factor	0.20, 0.25, 0.35

NETWORK AND TRANSPORT

• Fully addressable and controllable via Net Manager
• MPEG-2 Transport (ISO/IEC 13818) per ETSI EN 201 192
• MPE and ULE de-capsulation

STATUS AND CONTROL INTERFACES

• Web browser based Status and Control utilized Ethernet NET connector, plus SNMP (full MIB support)
• Password protected, allows for local setting of configuration parameters
• LCD display/keypad

POWER REQUIREMENTS

Supply Voltage	100 to 240 VAC, +6%, -10%, 50 or 60 Hz
Power Consumption	95 Watts maximum

PHYSICAL PARAMETERS

Chassis	1U rackmount
Dimensions (H, W, D)	4.5 cm x 48 cm x 36 cm (1.75" x 19" x 14")
Weight	5.4 kg (12 lbs.)

ENVIRONMENTAL CONDITIONS

Operating Temperature	0° to 45° C (32° to 113° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)
Humidity	Maximum 90% relative, non-condensing

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