SuperFlex® Pro Data™ Series

Data Satellite Receivers

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

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<th>MODEL</th>
<th>DESCRIPTION</th>
<th>DVB-S SYMBOL RATE</th>
<th>DVB-S2 SYMBOL RATE</th>
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</table>
| 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) |                  |                    |                                          |

### 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**: -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 PDUs  
  - 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, 2/3, 3/4, 4/5, 5/6, 8/9  
  - BPSK 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-capulation  

### 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