IRD Tuner/ASI to IP Gateway

IRD 1581 Series

- **Integrates demodulation, BISS descrambling, and gateway functions**
- **Supports 8 channel tuner/ASI inputs**
- **Supports BISS descrambling (up to 120 Mbps)**
- **1 × GE output, maximum 800 Mbps**
- **Supports SPTSx256, SPTSx32, and SPTSx20**
- **Supports NMS / SNMP / Web management**

Ascent IRD1581 1RU Tuner (or ASI) to IP gigabits IP Gateway is a head-end interface conversion device which supports SPTSx256, SPTSx32, and SPTSx20 (for versions with BISS function) output. It is integrated with tuner demodulation (or ASI input) and gateway functionality, and can demodulate a signal from 8 tuners into TS and packet the TS into IP packages or directly convert the TS from ASI input into IP packages and output the IP packages through different IP addresses and ports.

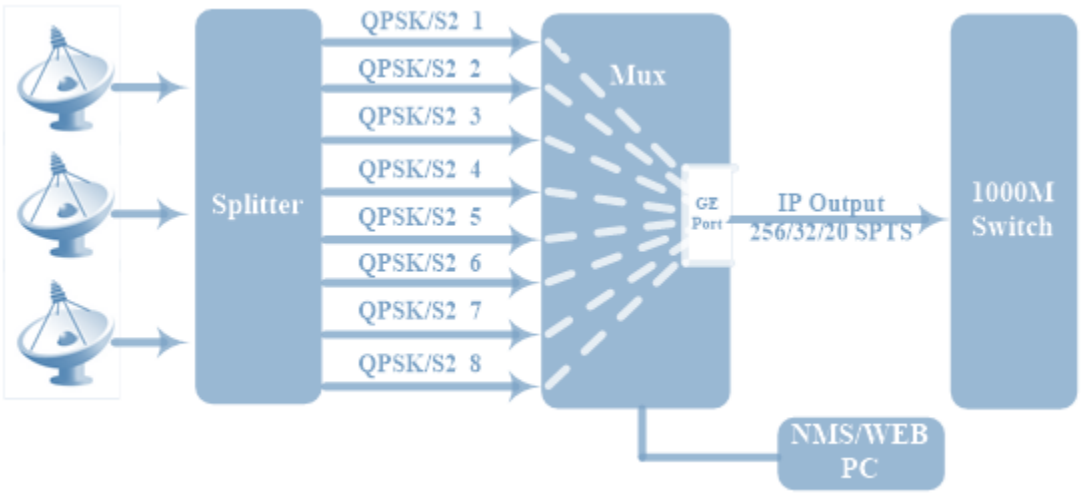
IRD1581 supports TS over UDP protocol. BISS functionality is also embedded for tuner inputs to descramble your tuner input programs.

The IRD1581 IRD Receiver can be deployed in a variety of digital distribution systems, and comes with an intuitive front panel LCD display. The IRD receiver is packaged in a self-contained 19” 1 RU sub-rack with a universal mains power supply and SNMP management.

Key Features

- Integrated with demodulation and gateway function
- Supports 8 channels tuner (ASI) input
- Supports BISS descrambling (up to 120 Mbps)
- Supports accurate PCR adjusting
- Supports PID filtering, re-mapping (256xSPTS without PID re-mapping)
- Supports PSI/SI rebuilding and editing
- 1 × GE output, maximum 800 Mbps bitrate output
- SPTSx256, SPTSx32 or SPTSx20 (For version with BISS function) over UDP, RTP/RTSP, unicast and multicast
- Supports DisEqc function
- Supports LCD display and keyboard
- Supports SNMP/Web operation (256 × SPTS without SNMP operation)

Application Diagram



Specifications

Input	
IRD1581 RF	8 × tuner inputs (DVB-S/DVB-S2 /DVB-T/DVB-T2/DVB-C/ISDB-T optional) **DVB-C:** 47 MHz to 860 MHz, 16/32/64/128/256 QAM **DVB-S:** 950 MHz to 2150 MHz, symbol rate: 2 to 45 Mbauds **DVB-S2:** 950 MHz to 2150 MHz, symbol rate: QPSK: 1 Mbauds to 45Mbauds, 8PSK: 2 Mbauds to 30 Mbauds **DVB-T:** 146 MHz to 862 MHz, 6/7/8 M bandwidth **DVB-T2:** 44 MHz to 999 MHz, 6/7/8 M bandwidth **ISDB-T:** 153 MHz to 862 MHz, 6/7/8M bandwidth **ATSC-T:** 43 MHz to 1002 MHz, 6/7/8M bandwidth
IRD1581 ASI	8 × ASI inputs
Output	1 × GE output, UDP, RTP/RTSP protocol, unicast and multicast 256 × SPTS output — Without BISS function 32 × SPTS output — Without BISS function 20 × SPTS output — With BISS function
BISS Descrambling	Mode 1, Mode E
Multiplexing	Supports PID filtering, re-mapping(256xSPTS without PID re-mapping) Supports accurate PCR adjusting Supports PSI/SI rebuilding and editing
Transmission Bitrate	Maximum total bitrate is 800 Mbps
General	
Power Supply	100 V AC to 240 V AC, 50/60 Hz
Power Consumption	20 W
Operating Temperature	0 to +45 °C
Storage Temperature	-20 °C to +80 °C
Dimensions (W x L x H)	482 mm × 410 mm × 44 mm
Weight	3.6 kg

Ordering Information

Product name	Product description
IRD-15-81-RF-S-IP-AC	DVB-S/S2 Satellite HD Receiver, 8 Tuner inputs, 8 IP (MPTS over UDP) - 1GE output, AC Power
IRD-15-81-RF-C-IP-AC	DVB-C HD Receiver, 8 Tuner inputs, 8 IP (MPTS over UDP) - 1GE output , AC Power
IRD-15-81-ASI-IP-AC	HD Receiver, 8 ASI inputs, 8 IP (MPTS over UDP) - 1GE output, AC Power

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Specifications and product availability are subject to change without notice.

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