

FLEX SRT

IP PROCESSOR



KEY FEATURES

- » Simultaneous 4xIP transport streams output (up to 20 Mbps each) in SRT, UDP, or RTP protocol
- » Pass-through or modify PSIP information such as major/minor channels, short names and corresponding program IDs (PIDs)
- » Program Drop and Mux capability
- » Supports SPTS and MPTS formats on both input and output

PRODUCT OVERVIEW

The **FLEX SRT** is designed to provide a bridge between existing transport stream based systems and SRT for Content Providers to distribute high-quality live linear encoded programs to anywhere in the world with an Internet connection.

This IP processor utilizes the SRT protocol to send and receive video to/from remote endpoints, allowing SD, HD, and UHD content to be delivered quickly, easily, and securely without relying on traditional methods, such as satellite and fiber.

In SRT output mode, the unit sends up to four (4) IP transport streams wrapped in SRT with configurable encryption to a SRT endpoint using the Caller, Listener, and Rendezvous modes. In SRT input mode, the unit receives up to four (4) IP transport streams wrapped in SRT and outputs to ASI, IP, and QAM.

ORDERING INFORMATION



| MODEL | STOCK # | DESCRIPTION |
|---------------|-------------|--|
| FLEX SRT | 6583 | SRT Processor; IP/ASI to IP/ASI + SRT (plus receive) |
| FLEX SRT RP-2 | 6592 | 1RU Panel Kit for mounting (2) FLEX SRT units |

FLEX SRT

SPECIFICATIONS



| INPUT | |
|---------------------|-----------------------------|
| IP MODE | |
| Connector | 1x RJ45 (Rear Panel) |
| Standard | 1000Base-T Ethernet (GigE) |
| UDP / RTP / SRT | Supported (User-Selectable) |
| Protocols Supported | IGMPv2 / IGMPv3 |
| STREAM PORTFOLIO | |
| Standard | ISO / IEC 13818-1 Systems |
| TS Packet Length | 188 bytes |
| Sync Byte | 0x47 |
| SPTS and MPTS | Supported |
| Muxing | 32 SPTS to 4 MPTS |
| Bit Rate | Constant |
| ASI | |
| Connector | 4x BNC Female |
| Rates | DVB-ASI; EN 50083-9 |

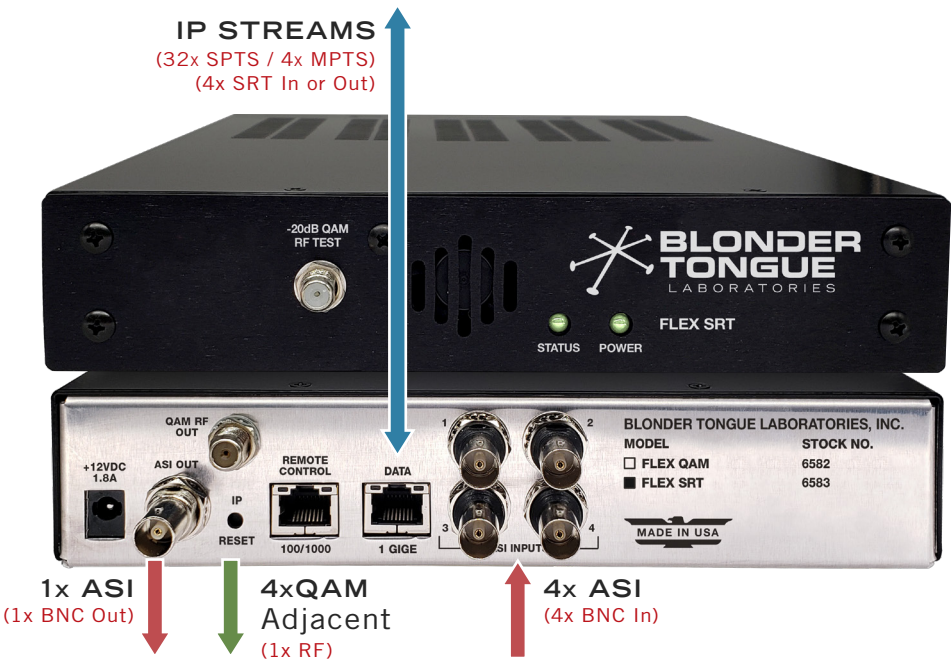
| ALARMS & MONITORING | |
|----------------------------------|--|
| Local Monitoring | 1x Power LED (bicolor) 1x Status LED (bicolor) |
| Local Control | 1x IP Reset Button |
| Remote Device Monitoring/Control | 1x RJ45 (10/100Base-T; Rear Panel) GUI-Based Menu via Web Browser |

| GENERAL | |
|----------------------------|---|
| Dimensions (W x H x D) | 8.69 x 1.97 x 12.70 in (220.7 x 50.0 x 322.6 mm) |
| Weight | 3.0 lbs (1.36 kg) |
| Power | 12 VDC External Power Supply |
| Power Consumption | 20 W |
| Operating Temp. | 32 to 122 °F (0 to 50 °C) |
| Storage Temp. | -13 to 158 °F (-25 to 70 °C) |
| Operating/Storage Humidity | 0 to 95% RH @ 35 °C max, non-condensing |

| OUTPUT | |
|-------------------------|---|
| IP | |
| Connector | 1x RJ45 (Rear Panel) |
| Standard | 1000Base-T Ethernet (GigE) |
| UDP / RTP / SRT | Supported (User-Selectable) |
| Address Assignment | IPv4 addresses & port numbers (User-Selectable) |
| SRT Protocols | Specifications - www.SRTalliance.org |
| ASI | |
| Connector | 1x BNC Female |
| Standard | DVB-ASI; EN 50083-9 |
| QAM | |
| Connector | 1x "F" (Rear Panel, ≤ 4xRF QAM Ch.) |
| Modulation | QAM 16, 32, 64, 128, and 256 |
| Standards | ITU-T J.83; Annex A & B |
| DVB Symbol Rate | Variable; ≤ Msymbol/sec (Mbaud) |
| Frequency Range | 54 to 1002 MHz |
| Tuning | CATV Channel Selectable (Ch. 2-158) |
| Channel Bandwidth | 24 MHz (4x Adjacent, 6 MHz) |
| RF Level | 40 dBmV (4 Ch. Combined) |
| RF Level Accuracy | ± 1 dB |
| Frequency Tolerance | ± 0.5 kHz @ 77 °F (25 °C) |
| Frequency Stability | ± 5 kHz over 32 to 122 °F (0 to 50 °C) |
| Amplitude Flatness | ± 0.25 dB (over 6 MHz channel) |
| Phase Noise | -98 dBc (@ 10 kHz) |
| Spurious | -60 dBc |
| Broadband Noise | -70 dBc (@ +52 dBmV level, 5.5 MHz BW) |
| Impedance | 75 Ω |
| Spectral Inversion | Auto-Recognition |
| Carrier Suppression | 45 dB |
| Return Loss | 14 dB typical |
| Signal-to-Noise Ratio | 40 dB typical |
| MER | 40 dB typical |
| I/Q Phase Error | < 1 degree |
| I/Q Amplitude Imbalance | < 1 degree |

FLEX SRT
IP PROCESSOR

I/O OVERVIEW



ORDERING INFORMATION



| MODEL | STOCK # | DESCRIPTION |
|---------------|---------|---|
| FLEX SRT | 6583 | SRT IP Processor; IP/ASI to IP/ASI + SRT (plus receive) |
| FLEX SRT RP-2 | 6592 | 1RU Panel Kit for mounting (2) FLEX SRT units |