

INGRON 114SR Four-Channel Professional Receiver



Features

- Up to 4*Tuner input, modes in DVB-S/S2, DVB-T/T2, DVB-C
- 1*ASI and 4*IP(UDP, RTP/RTSP protocol) inputs, for Re-Multiplexing
- Max. 4*DVB-CI slots, for multi-program decryption
- Each CAM able to decrypt multiple programs from Tuners, ASI, or IP input
- IP(4*MPTS/48*SPTS) on UDP and RTP/RTSP output
- Unicast and multicast modes supported for IP output
- Output 4 groups of independent ASI for tuner or IP each in mirror
- Max. 128 PID mapping per input supported
- Monitoring working situation by network system
- Software upgrading through IP
- Easy-operation by LCD and keyboard on front panel

Specifications

Tuner Input

| | | |
|---------------|-----------------|---|
| DVB-C Mode | Connector Type | 4*F type female, 75Ω for input; 4*F type female, 75Ω for loop through output |
| | Standard | J.83A/B/C |
| | Input Frequency | 47 ~ 860 MHz |
| | Input Level | 45 ~ 75 dBuV |
| | Symbol Rate | 1 ~ 7 Mbaud |
| | Constellation | 16/32/64/128/256 QAM |
| | Bandwidth | 6 MHz, 7 MHz, 8 MHz |
| DVB-T/T2 Mode | Connector Type | 4*F type female, 75Ω for input; 4*F type female, 75Ω for loop through output |
| | Input Frequency | 44 ~ 1002 MHz |
| | Input Level | -70 ~ -20 dBm |
| | Bandwidth | 6 MHz, 7 MHz, 8 MHz |
| | FFT | 2K/8K |
| DVB-S/S2 Mode | Connector Type | 4*F type female, 75Ω for input; 4*F type female, 75Ω for loop through output |
| | Input Frequency | 950 ~ 2150 MHz |
| | Symbol Rate | 2 ~ 45Mbaud (for DVB-S); 1 ~ 45 Mbaud (for DVB-S2, QPSK); 1 ~ 30 Mbaud (for DVB-S2, 8PSK) |
| | Code Rate | (DVB-S, QPSK) 1/2, 2/3, 3/4, 5/6, 7/8 (DVB-S2, QPSK, 8PSK) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 |
| | Input Level | -65 ~ -25 dBm |
| | Roll-off Factor | (DVB-S) 0.35; (DVB-S2) 0.35, 0.25, 0.2 |

Input

| | | |
|-----------|----------------|-----------------------|
| ASI Input | Number | 1*ASI |
| | Standard | DVB-ASI, EN50083-9 |
| | Input Bit-Rate | ≤49Mbps |
| | Connector Type | 1*BNC female, 75Ω |
| IP Input | Number | 4*IP addresses |
| | Connector Type | RJ45, 10/1000M Base-T |
| | Protocol | UDP, RTP/RTSP |
| | Bit-Rate | ≤70Mbps |

DVB-CI Module

| | |
|---------------------------|---------|
| Descrambling Processing | DVB-CAS |
| Smart Card Interface | ISO7816 |
| Interface Card Separation | PCMCIA |

Output

| | | |
|------------|--------------------|--|
| ASI Output | Number | 4*ASI (corresponding with 4*tuner/4*IP inputs, in mirror) |
| | Standard | EN 50083-9 ASI |
| | Output Bit Rate | Max. 54 Mbps |
| | MPEG Frame | 188/204 byte |
| | Reflection Loss | >10 dB |
| | Connector Type | 75 Ω, BNC interface |
| IP Output | Transport Protocol | TS over IP output, UDP, RTP/RTSP protocol |
| | Mode | Unicast and multicast |
| | Connector Type | RJ45, 10/1000M Base-T |
| | Output Channel | 48*SPTS (from 4*Tuner & 4*IP & 1*ASI); 4*MPTS (corresponding with 4*Tuner, in mirror) |

Management

| | |
|----------------|-----------------------------------|
| Local Control | by keyboard or LCD on front panel |
| Upgrading | by Ethernet interface |
| Remote Control | by web NMS |
| Language | English |

General

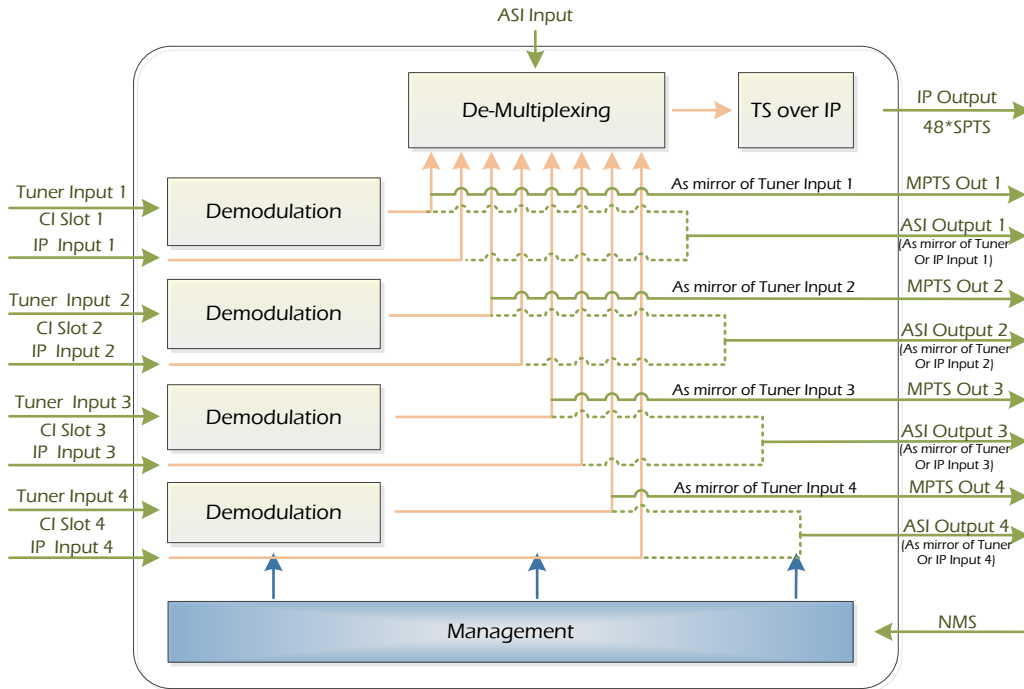
| | |
|-------------------|--|
| Voltage | 100~240V AC, 50/60Hz |
| Power Consumption | 18.0 W |
| Environment | 0~45°C (Operation), -20~80°C (Storage) |
| Dimension (W*D*H) | 482*405*44 mm |
| Gross Weight | 4.0 KGS |

Introductions

INGRON1114SR Four-Channel Professional Receiver is integrated with modules of demodulation and descrambling, together with a multiplexing module, to convert and multiplex the received RF signals to TS and output finally. It is configured with 4*Tuner inputs, and able to accept RF signals in DVB-C, DVB-T/T2 or DVB-S/S2 by option. 1*ASI and 1*IP(4 addresses) are also available for signal inputs for multiplexing. 4 CAM/CI slots are configured for descrambling of input programs from encrypted RF. When all converted and

multiplexed, the device outputs with 4*ASI, which is corresponding with each of input RF or IP in mirror, and also IP out in max. 4*MPTS(in mirror of 4*tuner inputs), or 48*SPTS(from 4*tuner input & 4*IP input & 1*ASI input). This makes INGRON1114SR quite suitable and ideal for digital TV systems such as IPTV, etc..

Diagram



Rear Panel



Options

| | INGRON1114SR-C | INGRON1114SR-S/S2 | INGRON1114SR-T/T2 |
|-------------|----------------|-------------------|-------------------|
| Tuner input | DVB-C | DVB-S/S2 | DVB-T/T2 |