



- 4 channels (2HD/2SD or 1HD/3SD) 8VSB RF output
- PSIP/PSI descriptors generator/injector with VCT
- Remultiplexer with PID editor, ASI injection, remap, restamp, grooming, and add-drop
- MPEG2/MPEG4 video encoding (ATSC 3.0 ready)
- Full color touchscreen display, with Ethernet and SNMP
- Internal RF isolator, efficient switching power supply
- EAS input and control through GPI or SNMP
- Dynamic PSIP input from any external EIT EPG generator
- Excellent video quality and lower bitrates through triple pass video motion estimation
- 2 Year Warranty

AUDIO / VIDEO INPUT CHARACTERISTICS

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|----------------------------------|--|
| Digital Audio Inputs | SDI embedded – (1) stereo pair or pass through compressed |
| Digital Audio Format | Selectable Dolby Digital / AC3 / Stereo / 5.1-7.1 pass-through / MPEG2 / AAC |
| Analog Audio Inputs | Optional XLR/L-R balanced-unbalanced audio embedded available upon request |
| Digital Video Inputs | (4) HD / SD SDI with embedded audio |
| Analog Video Inputs | Optional CVBS / Component / HDMI / VGA / DVI adapter available upon request |
| Input Resolution | Auto detect any resolution |
| Video Scaler | Scaler function can be selected on standard software to scale the input to lower resolution for matching |
| Encoding Modes | MPEG2 / MPEG4 H264 selectable by software per each channel |
| Encoding Latency | Ultra-low delay 50 milliseconds encoding |
| Encoding Bitrates | User selectable from 0.5 to 20 Megabits/s per channel (VBR / CBR stat mux) |
| Encoding Control Features | Video bitrate, CBR / VBR, ultra-fast encoding modes, 1080P MPEG2 mode All Closed Caption and TXT formats, fully compatible to ATSC 3.0, Crystal-View technology |

ASI INPUT / OUTPUT

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|---------------------------|--|
| ASI Inputs | (1) SPTS / MPTS |
| Remultiplex | Generate, inject, remap, restamp, grooming, add / drop; Stat Mux |
| Max Input Bitrate | 214 Megabit/s |
| ASI Outputs | (2) Mirror |
| ASI Output Format | Selectable 188 / 204 bits |
| Transport Stream | ASI Mux MPTS ready for excitors, STLs, and uplinks |
| Max Output Bitrate | Fixed payload selectable to 19.3 Megabit/s (ATSC) or any other value as needed |

IPTV OUTPUT

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|----------------------------------|---|
| IP Streaming Output | (1) 100 / 1000 auto |
| Mux IP Stream Output | (1) Same as ASI MPTS Mux but over IP – ready for IP STLs, excitors, etc. |
| SPTS Single Stream Output | (4) Selectable RTP / RTSP / UDP Single Program Transport Streams, IGMP, Multicast / Unicast |
| IPTV Bitrates | Same as ASI Mux output for the MUS stream, same as each encoder for the SPTS streams |

ELECTRICAL CHARACTERISTICS

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|--------------------------|---|
| Flexible AC Input | 100-240 Vac input, 50 / 60 Hz |
| AC Consumption | Amplifier: 1,040W typical [208Vac/5Aac] (dependent on frequency) Encoder/Stat Mux/Modulator: 65W max |

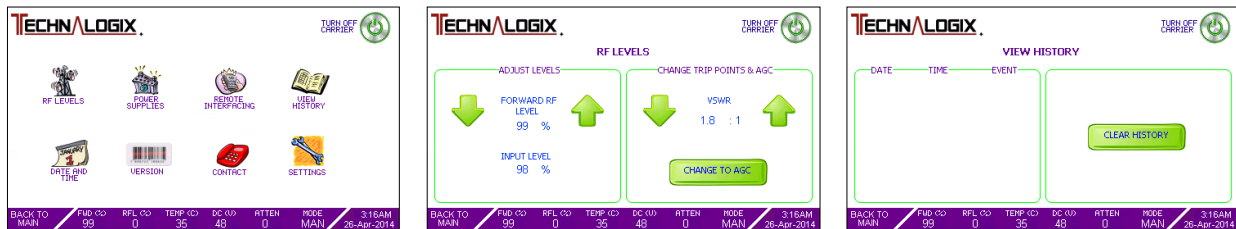
** Due to continuous product improvements, Technalogix reserves the right to change specifications without notice. **

PHYSICAL FEATURES

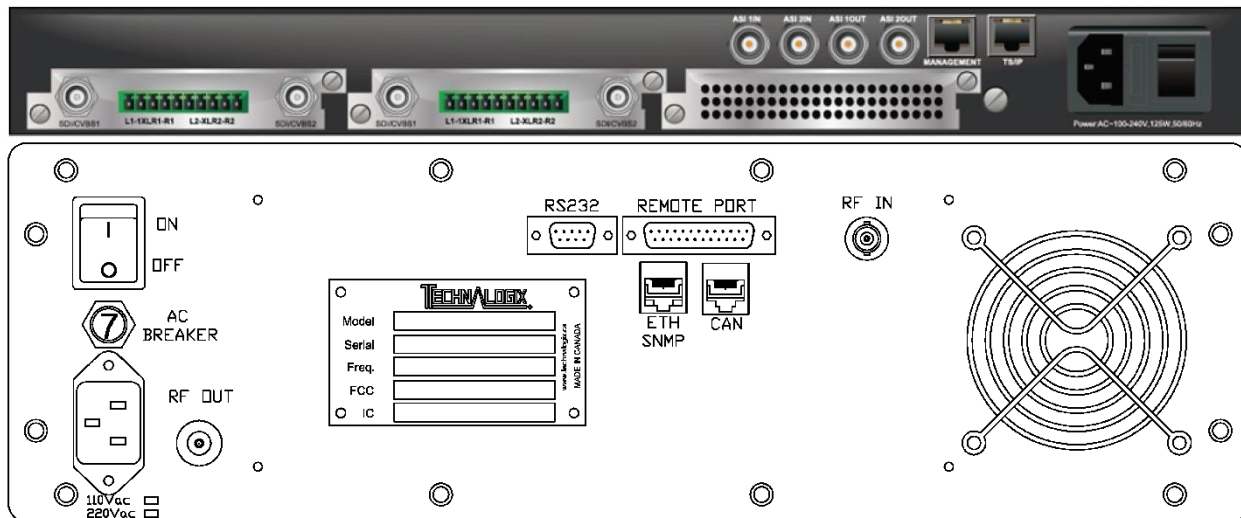
| | | |
|-------------------------------|-----------------------------|--|
| Minimal Rack Space | Amplifier: | 3U (H) x 25" (D) x 19" (W) |
| | Encoder/Stat Mux/Modulator: | 1U (H) x 15.35" (D) x 19" (W) |
| Lightweight Enclosures | Amplifier: | 40 lbs |
| | Encoder/Stat Mux/Modulator: | 8 lbs |
| Operating Temperature | | 0 to +45° C |
| Humidity | | 90%, non-condensing |
| | | Natural and forced air circulation, redundant fans |

INTERFACE

| | | |
|-------------------------|-----------------|--|
| DB25 Remote Port | Control: | RF carrier on/off, RF power up/down, reset |
| | Monitor: | Forward/reflected RF level, control PCB Vcc |
| | Flags: | Overdrive, VSWR (adjustable trip point), high temperature |
| Ethernet | Control: | RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset |
| | Monitor: | Forward/reflected RF level, pallet voltage, RF input level, temperature, VSWR trip point, model/serial number |
| | Flags: | Carrier on/off, overdrive, pallet voltage, VSWR, RF input, temperature, AGC / manual |
| SNMP | Control: | RF carrier on/off, RF power up/down, AGC/manual mode, change VSWR trip point, reset |
| | Monitor: | Forward/reflected RF level, DC pallet voltage, RF input level, temperature, pallet current, attenuation, run time, RF fault, model/serial number |
| | Flags: | Overdrive, VSWR, temperature, SNMP error |



Screenshots off Touchscreen Interface



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