UCrypt® IP2A

MDU Solutions®

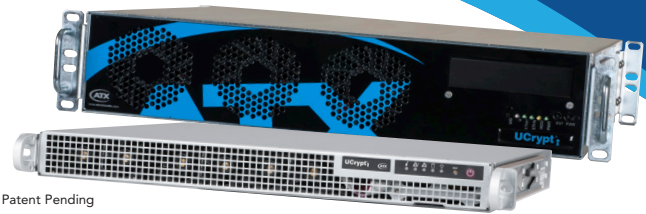## UCrypt® IP to Analog

Patent Pending

IP to Analog
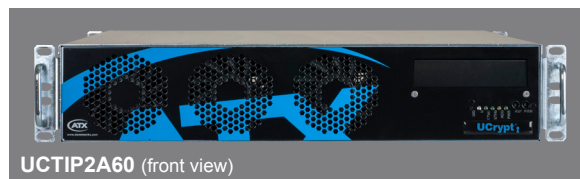*(front views)*

Features

- The UCrypt® IP to Analog product offering allows service providers to ingest programs carried over IP and retransmit them in NTSC or PAL analog formats

- Ideal for replacing legacy analog modulators when converting headends/hubs to all-IP transports

- Perfect for building a "mini headend" for commercial accounts, MDUs or bulk hospitality accounts where non-digital TVs are prevalent

- Allows for delivery of up to 60 individually agile analog channels in the 54-860 MHz frequency range

- Supports ingest of up to 60 MPEG-2 or H.264, HD or SD, IP multicast video streams

- Web based UI includes live preview capability for monitoring processed programs
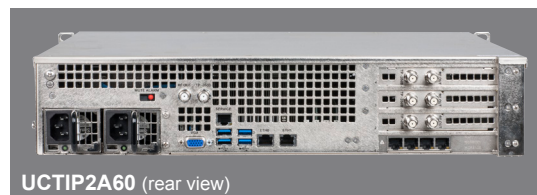

UCTIP2A10 / UCTIP2A20 (front view)

UCTIP2A10 / UCTIP2A20 (rear view)

UCTIP2A60 (front view)

UCTIP2A60 (rear view)

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Call Us: 954.427.5711
Toll Free: 888.293.5856

Specifications

UCrypt® IP to Analog

	UCTIP2A10 / UCTIP2A20	UCTIP2A60
INPUT		
ETHERNET	IEEE 802.3-2002,1000BASE-T (GbE)	
CONNECTORS	2x RJ45; Chassis Rear	6x RJ45; Chassis Rear
TRANSPORT STREAM/LAYER PROTOCOL	SPTS, MPTS over UDP/RTP (VBR or CBR)	
MULTICAST PROTOCOL SUPPORT	IPv4 Unicast & Multicast, IGMP v1, 2 and 3	
SUPPORTED VIDEO FORMATS	MPEG-2 MP@HL / MP@ML, MPEG-4 pt10 AVC/H.264 HP@L4 / MP@L3	
SUPPORTED VIDEO RESOLUTIONS	Up to 720p & 1080i[1]	
SUPPORTED AUDIO FORMATS	Dolby® Digital (AC-3), MPEG-1 L1/2/3, MPEG-2, AAC, AAC (HE), E-AC3	
SUPPORTED AUDIO SAMPLE RATES	Max. 448 kbps	
REDUNDANCY	Dual Input Multicasts per Program	
TS PROCESSING		
DECODING	Supports Decoding of up to 60 Streams per Chassis	
ADDITIONAL PROCESSING CAPABILITIES	Closed Captioning (EIA-608/708), Teletext VBI and Overlay, SCTE-27 / DVB® Subtitles Overlay	
ASPECT RATIO CONTROL	AFD, Center Cut, Letterbox, Disabled	
OUTPUT		
NUMBER OF RF CHANNELS	Up to 60, Fully Agile Modulated Channels	
SUPPORTED MODES	NTSC, PAL B/G, PAL D/K, PAL M/N	
AVAILABLE VBI DATA	WSS Pass Through, VITS Signal Enable - ITU	
FREQUENCY RANGE	54-860 MHz (EIA ch2-135)	
FREQUENCY PLANS	STD, HRC, IRC and Custom Channel Plans	
OUTPUT LEVEL & FLATNESS	36 dBmV +/- 2 dB per Analog Carrier	
CARRIER-TO-NOISE RATIO (CNR)	55 dB[2] (min)	
COMP. TR. BT. (CTB)	-65 dBc	
COMP. 2nd ORD. (CSO)	-65 dBc	
OUTPUT RETURN LOSS	18 dB (min)	

DEMODULATED VIDEO		
DIFFERENTIAL GAIN	≤ 5%	
GROUP DELAY VARIATIONS	≤ 100nS	
2TK FACTOR	≤ 2%	

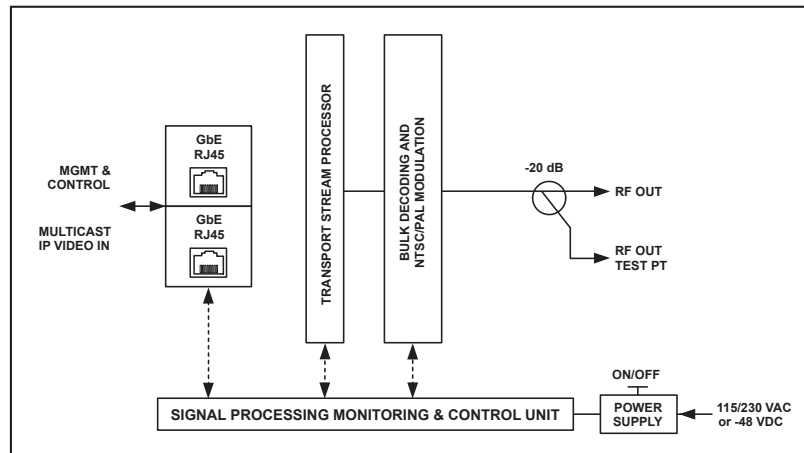|		
ANALOG AUDIO OUTPUT FORMAT	Stereo, NICAM Stereo Audio, A2 Audio, SAP, Mono	
ANALOG AUDIO FREQUENCY RESPONSE	Primary: 50 Hz to 15 kHz, Secondary: 50 Hz to 10 kHz	
RF CONNECTOR	F Connector; Chassis Rear	
RF TEST PORT	-20 dB Relative to Output; F Connector, Chassis Rear	
DEVICE MANAGEMENT		
MANAGEMENT INTERFACE	Local or Remote Management via Integrated Secure Web Server	
MANAGEMENT INTERFACE PORT	1000BASE-T, Static IP or DHCP, RJ45, Chassis Rear	
MASS DEPLOYMENT & BACKUP	Importable/Exportable Device Configuration Files	
REMOTE MONITORING	SNMP, UI Live Preview	
ALARMS	SNMP Traps/UI Alerts and Alarms	
EAS		
MODES	Support for ANSI/SCTE 18 Messaging	
PHYSICAL & ENVIRONMENTAL		
FORM FACTOR	1RU, 19" Rack Mount	2RU, 19" Rack Mount
DIMENSIONS	1.75"H x 19.0"W x 23.0"D (4.45H x 48.26W x 58.42D cm)	3.5"H x 19.0"W x 17.2"D (8.89H x 48.26W x 43.69D cm)
WEIGHT	25.4 lbs (11.5 kg)	29.8 lbs (13.5 kg)
POWERING REDUNDANCY	Fully Redundant 650W Power Supply Modules, Hot-swappable	
INPUT POWER RATING	110-220 VAC or -48 VDC	

Specifications (cont'd)

UCrypt® IP to Analog

	UCTIP2A10 / UCTIP2A20	UCTIP2A60
PHYSICAL & ENVIRONMENTAL (cont'd)		
OPERATING TEMPERATURE	0°C to +40°C[3] (+35°F to +104°F)	
HUMIDITY	0-95% Non-condensing	

NOTES:

(1) Includes the following resolutions: 640x480, 720x480, 704x480, 544x480, 528x480, 352x480 at 29.97 fps.

(2) CNR specification applies to output from non-combined RF output ports only.

(3) For details on exceeding +30°C, please refer to the UCrypt Environment & Temperature Considerations Info Sheet (#ANW1066).
Dolby is a registered trademark of Dolby Laboratories. Manufactured under license from Dolby Laboratories.Specifications

Functional Schematic

Ordering Information

Part Number	Description
IP to Analog	
UCTIP2A10	UC IP2A 10-channel IP Input and Analog Output (AC power), 1RU
UCTIP2A20	UC IP2A 20-channel IP Input and Analog Output (AC power), 1RU
UCTIP2A60	UC IP2A 60-channel IP Input and Analog Output (AC power), 2RU
UCTIP2A10DC	UC IP2A 10-channel IP Input and Analog Output (DC power), 1RU
UCTIP2A20DC	UC IP2A 20-channel IP Input and Analog Output (DC power), 1RU
UCTIP2A60DC	UC IP2A 60-channel IP Input and Analog Output (DC power), 2RU
Power Supply Modules	
UCTPSMOD-AC4	UCrypt AC Power Supply Module 4 (UCTIP2A10 / UCTIP2A20)
UCTPSMOD-AC3	UCrypt AC Power Supply Module 3 (UCTIP2A60)
UCTPSMOD-DC3	UCrypt DC Power Supply Module 3 (UCTIP2A10 / UCTIP2A20)
UCTPSMOD-DC1	UCrypt DC Power Supply Module 1 (UCTIP2A60)

ATX

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