



Digital Audio Transporter

Based on Moseley's Advanced Intelligence Multiplexer (AIM) technology, Rincon is the broadcast industry's first Software Defined Audio Transport Product optimized to deliver multichannel digital audio over IP, TDM or Wireless networks simultaneously. The product's ability to leverage these network choices and low purchase price gives excellent return on investment.

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- 4 stereo channels per unit provides high payload capacity, supports multi-station clusters
 - Bidirectional Ethernet transport in T1 mode supports HD Radio™ stream and IP based equipment control
 - 4x0, 3x1 or 2x2 bidirectional to provide backhaul audio for downlink or RPU or confidence monitor
 - AES/EBU and Analog XLR connectors and integrated Analog and AES for operator's ease of use
 - Choice of Linear Uncompressed, MPEG2, MP3, AAC LC&LD, and G.722/G.711 maximizes performance over any network topology
 - Simultaneous E1/T1 and IP transport allows broadcasters to select the most cost effective network available
 - Integrated Ethernet Switch for QOS to make sure your audio gets through the traffic
 - Integrated Web Server/SNMP Agent for ease of management
 - Manage Rincon from your PC, Smartphone or Tablet
 - Unicast/Multicast RS-232 channels for RDS or device control
 - 8 Alarm and 3 Status conditions are transported across the link
 - 100 parameters may be mapped to alarms or status reporting
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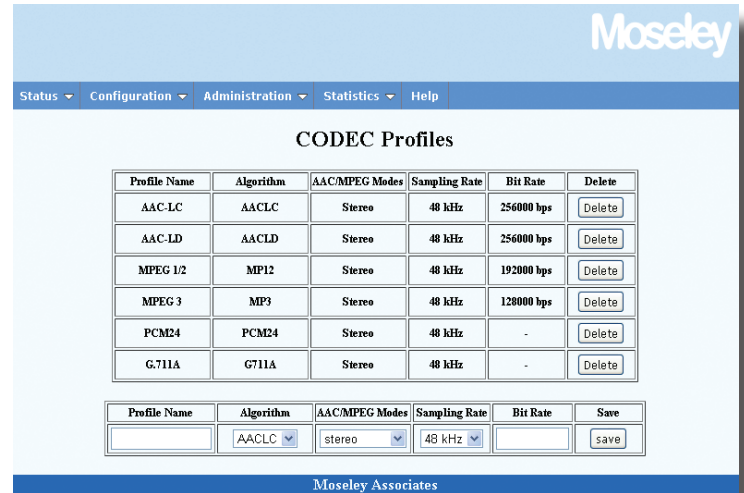
SYSTEM TRANSPORT

INTEROPERABILITY	ACIP Compliant and VLC Compatible
FEC	Pro-MPEG CoP 3 r2
STREAMS	Up to 4 Audio Streams
VLAN	IEEE 802.1Q Support
PACKET SIZE	User selectable per stream
JITTER BUFFER	Adaptive or adjustable per stream,
QoS	Per stream, ToS, DiffServ
TOPOLOGY	Point-to-Point unidirectional; Point-to-Point bidirectional; Point-to-Multipoint multicast
SYNCHRONOUS BACKUP	Programmable failover per stream to Alternate audio source and transport
LATENCY	IP TRANSPORT 30 – 500 ms



SYSTEM AUDIO

FREQUENCY RESPONSE	< 5 Hz to 22.5 kHz (48 kHz); < 5 Hz to 15 kHz (32 kHz)
DISTORTION	< 0.01% at 1 kHz
SAMPLE RATE	Selectable 32, 44.1, 48 kHz; built-in rate converter
DYNAMIC RANGE	90 dB static encoder/decoder: > 120 dB AES EBU
CROSS TALK	-80 dB
LEVEL STABILITY	< 0.2 dB
CHANNELS SUPPORTED:	
DIGITAL AUDIO	4 Stereo Channels
ANALOG AUDIO	4 Stereo Channels
SOURCE ENCODER AND DECODER CHOICES	Uncompressed, MPEG Layer 2/3; AAC – LD, LC, G722, G711



ENCODER & DECODER

AUDIO CONNECTORS	Analog Input XLR Male, Output XLR Female AES/EBU RJ-45(Ext XLR Cable)
AUDIO SAMPLE RATES	32/44.1/48 kHz selectable, built-in rate converters
ANALOG AUDIO INPUTS	Electronically balanced, 600Ω/10kΩ, selectable, CMRR>60 dB
ANALOG AUDIO OUTPUTS	Electronically balanced, low-Z
ANALOG AUDIO LEVEL	-10 dBu to +18 dBu
DIGITAL AUDIO	AES/EBU
AES/EBU IN/OUTPUTS	Transformer balanced, 110Ω
DATA INPUT RATES	Async, 300-9600 bps selectable
BITS	16 or 24 bits

SYSTEM MANAGEMENT

- Integrated Web Server
- SNMP
- Connection Mapper for Switching and Distribution
- Session Initiation and auto negotiation (SIP)

ETHERNET PORTS

ETHERNET INTERFACE STANDARD CONNECTOR	2 X 100Base-T Interface Ethernet IEEE 802.3 bridge RJ-45 (2 ports)
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T1/E1 INTERFACES

E1/T1 INTERFACE CSU CONNECTOR	2 X E1 / T1 Built-in RJ-45, Available BNC adaptor
IMPEDANCE	100Ω balanced, Available BNC adaptor
T1 LINE CODES	B8ZS, AMI
T1 FRAMING	ESF, D4
E1 LINE CODES	HDB3
E1 FRAMING	256N, 256S, with/without CRC-4
E1 COMPLIANCE	CCITT Rec. G.703, G.704, G.732
LINE LENGTH EQ.	Short-Haul and Long-Haul Supported

PHYSICAL

POWER	Universal AC 90-260V, 47-63 Hz Optional Redundant Power Supply Optional 24Vdc, 48Vdc supply
DIMENSIONS	1.75" x 17.5" x 8.5" (1RU), 44.5mm x 445mm x 216mm
MOUNT	Rack mount with included ears
TEMPERATURE	0°C to 50°C Operational
HUMIDITY	90% Noncondensing
REGULATORY	FCC Part 68, FCC Part 15, ETSI