



ARQ IP Streaming Systems



The ARQ IP Streaming System is a simple to configure solution for the distribution of high quality video over unconditioned IP networks including wireless, the Internet, and satellite.

The ARQ IP Streaming System can ingest ASI or IP transport streams and adds advanced Automatic Retransmission Request (ARQ) and intelligent buffer management to establish a high quality of service between multiple locations suffering from packet loss and poor jitter performance. Each ARQ system is supplied with one transmitter (TX) or receive (RX) license and can support multiple TX and or RX licenses per unit. Each license enables one transport stream (TS) to be broadcast/ received with ARQ.

Being scalable in single stream increments, broadcasters can quickly add extra ARQ

licenses to deliver multiple IP UDP unicast and multicast services.

The ARQ TX license takes a standard TS from any encoder as ASI or IP and adds additional overhead to a standard UDP IP Packet which is sent onto the ARQ RX unit. The RX uses this additional overhead to check the integrity of the stream. Any jitter, out of order packets, corrupt packets or lost packets will be re-established with packet resends and intelligent buffer management. All packets sent between TX and RX ARQ units are UDP. At each TX and RX site a single configurable UDP port per TS will need to be open for normal operation. All management is http on port 80.

FEATURES

Ideal for contribution, distribution, microwave/satellite backhaul over fixed or unconditioned IP broadcast networks and timing over packet networks for synchronous Ethernet time critical broadcast services.

Optional DVB-ASI port, configurable as input or output each providing up to 170 Mbps bandwidth throughput

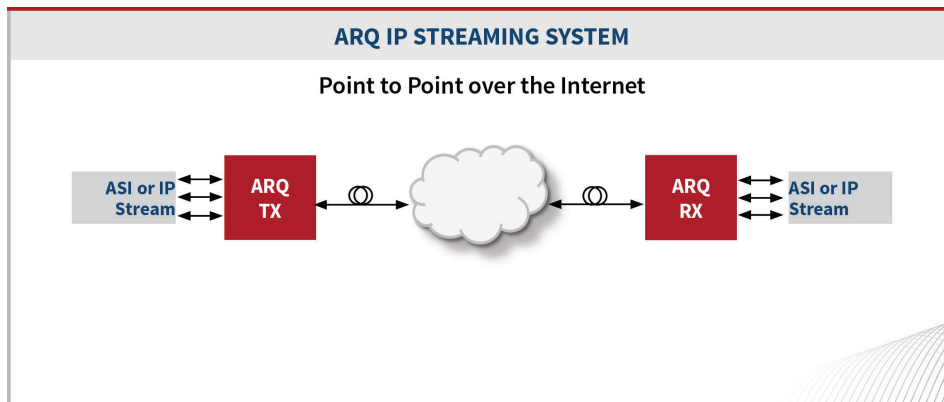
Optional fully managed carrier grade Quarra PTP Ethernet Switch with SNMP and web server for configuration and control with up to 4 x 10/100/1000 copper Ethernet ports plus 2x GigE SFP ports. IEEE 1588 PTPv2 highly accurate with nanosecond timing.

1RU unit has dual auto ranging power supplies

Fast boot up and service active time

Low power consumption on compact unit

Available as a 1RU rackmount or compact unit



SPECIFICATIONS

General Specifications - 1RU Unit

Maximum Throughput	800Mbit/s
AES	128bit Encryption
Connectors	
Without Ethernet switch fitted	3 GigE ports 2x USB
Interfaces With Ethernet switch fitted	2 x IEC mains sockets 4 x GigE ports + 2 x SFP's 2 x IEC mains sockets ASI Interfaces

Mechanical

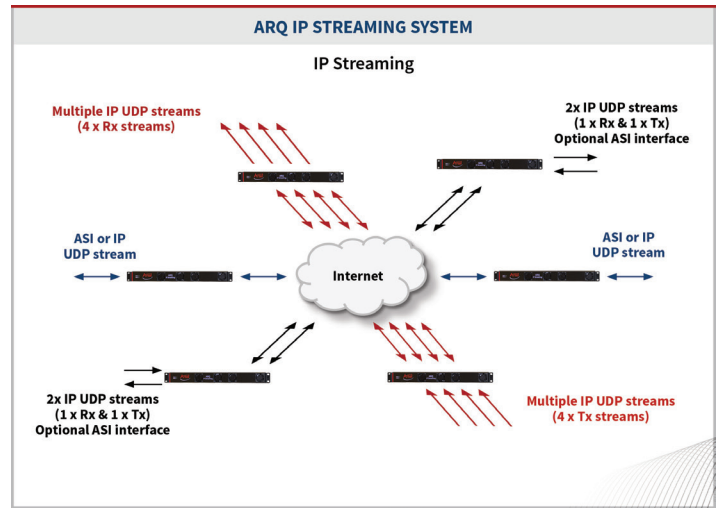
Dimensions	1RU 19" x 15" (43.6mm x 482.6 mm x 385mm)
Weight	12.31 lbs (4.8kg) depending on modules fitted
Power Supply	Dual supply single phase auto-ranging 100-240VAC (50-60Hz)
Power consumption	Typically 30 Watts
Management & Control	Configuration and control via web server
DVB-ASI Interface Optional	Selectable TX or RX Max throughput 170 Mbps SMPTE 2022-1 compliant
Optional Ethernet Switch	See ARG Quarra datasheet for specifications.

General Specifications - Compact Unit

Max Throughput	80Mbit/s
AES	128bit Encryption
Connectors	1 x GigE port 2x USB

Mechanical

Dimensions	130 x 94x 38mm
Weight	585g
Power Supply	DC 9-30v supplied with external supply.
Power consumption	Typically 7 Watts



ARQ 1RU Rear Panel



ARQ 1RU with ASI Module Rear Panel



ARQ Compact IP Streaming System



IEC/EN60950 safety certification



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All specifications subject to change without notice. ©2018

Ordering Information

Description	Product Number
ARQ IP Streaming System 1RU, Web, Dual PSU, Single SW License, 3 x RJ45	390-800000-00
ARQ IP Streaming System with 1 ASI Module, Web, Dual PSU (Available only on the 1RU ARQ IP Streaming System)	390-800000-01
Optional Quarra PTP Ethernet Switch Up to 4 x RJ45 and 2 x SFPs (Available only on the 1RU ARQ IP Streaming System)	390-800001-00
ARQ Compact IP Streaming System, Single SW License, 1 x RJ45, 9-18VDC Input	390-810001-00
Additional Software user licenses - Per license up to 4 extra channels	395-809100-04

Sales



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