

IQ-INT 3

Architectural & Engineering Specifications

IQ-INT 3

The audio system shall utilize a separate component dedicated specifically to serve as an interface between RS232 and IQ system components connected together on one or more serial data loops (IQ Bus). The interface unit shall be capable of serving as an interface for up to four separate serial data loops. It shall be possible to connect up to 250 like IQ components to a single IQ serial loop. Communication shall be possible at BAUD rates as high as 38.4 K over wire runs as long as 1,000 feet between IQ component and up to 2,000 feet in each loop.

RS232 data coming into the interface unit shall be buffered and converted to parallel format for transmission into its internal processor. The processor shall control the flow of data output to each serial data loop. The interface unit shall support both the original IQ and the newer IQ2 protocols.

The interface unit shall provide one female 9-pin D-shell connector for communication with the RS232 computer, and shall provide four RJ-45 connectors for input, and four RJ-45 connectors for output. The interface unit shall provide Power indicators on the front and rear panels to indicate that the AC supply is connected and that power is applied.

The interface unit shall contain its own universal power supply for operation from 100VAC to 240VAC, and 47 Hz to 66 Hz. A standard IEC inlet shall be provided for AC line cord-set connection.

The interface unit shall meet or exceed the following general specifications: Power Consumption: 100VAC, 60 Hz: 3.70W, 50 Hz: 3.71W; 120VAC, 60 Hz: 3.92W, 50 Hz: 3.92W; 220VAC, 60 Hz: 5.03W, 50 Hz: 5.03W; 230VAC, 60 Hz: 5.23W, 50 Hz: 5.18W; 240VAC, 60 Hz: 5.59W, 50 Hz: 5.41W.

The interface unit shall meet or exceed the following IQ Bus data communication specifications: Protection: The auto-reset feature is controlled by the microprocessor. Optically coupled 20-milliamp current loop receivers provide ground isolation. Data Rate: 38.4 K baud. Data Format: Asynchronous binary serial data with 1 start bit, 1 stop bit, 8 data bits and no parity check. Interface Type: 20-milliamp current loop. Operation: Half duplex. Intelligence: 16-bit microprocessor. Transmission Distance: Variable from 200 to 3,000 feet (61 to 914 meters) depending on wire capacitance. 1,000 feet (305 meters) is typical with shielded 26 AWG twisted pair wire. IQ repeaters or fiber optic transceivers can be used to cover greater distances.

The interface unit shall meet or exceed the following RS232 data communication specifications: Data Rate: 9,600, 19,200, 38,400, 57,600 or 115,200 baud. Data Format: Asynchronous binary serial data with 1 start bit, 1 stop bit, 8 data bits and no parity check. Interface Type: RS232. Operation: Half duplex. Data Buffer: 255 bytes. Intelligence: 16-bit microprocessor. RS232 Transmission Distance: 50 feet (15.2 m).

The interface unit shall meet or exceed the following mechanical specifications:

Finish: Charcoal powder-coated steel chassis and front panel with Lexan® front and rear overlays. Dimensions: 19-inch (48.3 cm) standard rack mount width (EIA RS-310-B), 1.75-inch (4.4 cm) height and 6.5-inch (16.5 cm) depth. Weight: 6 lbs., 4 oz (2.8 kg) net; 9 lbs., 5 oz (4.2 kg) shipping.

The interface unit shall be designated the Crown IQ-INT-3.



H A Harman International Company

Crown International
P.O. Box 1000
Elkhart, IN 46515-1000
TEL: 219-294-8200
FAX: 219-294-8FAX
www.crownaudio.com

Specifications subject to change without prior notice. Latest information available at www.crownaudio.com.

© 2001 Crown Audio, Inc. Crown, IQ and IQ System are registered trademarks of Crown International. Other trademarks are the property of their respective owners. Printed in U.S.A.