

# IQ-RPT 3

## Architectural & Engineering Specifications

### IQ-RPT 3

The audio system shall utilize a separate component dedicated specifically to prevent IQ loop signal degradation by reconstructing the incoming data signal and repeating the reconstructed signal out to the next component on the IQ loop. The repeater unit shall be capable of extending the operating distance of an IQ loop by as much as 1,000 feet (305 m) or more, depending upon IQ loop wire capacitance. The repeater unit shall support both the original IQ and the newer IQ2 protocols.

The repeater unit shall provide one RJ-45 connector for input, and one RJ-45 connector for output. The repeater 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 repeater unit shall provide yellow Data Send and green Data Receive indicators on the front and rear panels to indicate IQ loop data activity.

The repeater 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 repeater 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 repeater 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. More IQ repeaters or fiber optic transceivers can be used to cover greater distances.

The repeater 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 repeater unit shall be designated the Crown IQ-RPT-3 .



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