



Raven Electronics Corporation

400 Edison Way, Reno, NV 89502

416 SERIES ANALOG ORDERWIRE

The Raven Analog Orderwire provides an interface between a 4-wire line, a frequency limited voice path and a wideband data path.



A 4-wire transmit port is provided by the Transmit module, which sums inputs from the handset MIC and a wideband data input. A low pass filter in the voice path limits signals from the handset MIC.

A 4-wire receive port is provided by the Receive module. From this input, the Receive module provides a wideband data output and a voice frequency output (limited by a low pass filter) to the speaker or handset receiver (to speaker when ON HOOK, and to the handset when OFF HOOK).

PRODUCT SPECIFICATIONS

POWER REQUIREMENTS

Inputs -24 to -56VDC or 110/220VAC 47-63 Hz
Consumption 40 watts max @ AC power
Mounting 19" rack 2 vertical spaces (3 1/2")

4-WIRE INTERFACE

Impedance: Tx & Rx 600, 135, 124, 75 ohms or customer specified
Levels: Transmit & Receive -46 to +7 dBm, adjustable
Crosstalk-Receive to Transmit Less than -70 dB except when using 2-wire telephones.

SIGNALING

SF Frequency: 2600 Hz or 3825 Hz standard, other frequencies available
DTMF selective calling optional; 12 or 16 tone format "E"
Relay Contacts Single Form "C" rated 2 amps at 28 VDC or 115 VAC
Receive Bandwidth $\pm 2\%$ nominal Transmit Frequency Accuracy $\pm 0.5\%$

WIDEBAND DATA INTERFACE

(Tx & Rx) Impedance 600 ohms balanced
Levels +7 dBm maximum, adjustable
Frequency Response ± 1 dB, 500 Hz to 40 kHz

V-F INTERFACE (Tx & Rx)

Frequency Response +1, -3 dB, 300 Hz to FcHz
Fc is the filter cutoff frequency
(Greater than 55 dB down at 1/4 octave)
4W Levels: Tx -16 dBm, nominal Rx +7 dBm, nominal
Speaker Level 1W, maximum, adjustable
Harmonic Distortion less than 1%

p (775) 858.2400

f (775) 858.2410

ravencomm.com