



Raven Bridge Shelves

Specialized Communication Solutions

The **Raven Bridge** is an easy, effective and versatile means of bridging multiple 4-wire analog circuits. Each port receives and retransmits audio from all other ports in the bridge.

All inputs and outputs are transformer coupled providing excellent common-mode rejection. The bridge shelf is aligned and tested per the customer's specifications at the time of order. Therefore, little or no on-site adjustment is necessary.



- Transmit/Receive levels are customer specified from -40 dBm to +7 dBm
- Shelves vary in rack space size from 1 RU (1.75") to 3 RU (5.25")
- Shelves can be powered from a DC source (-24 to -56 VDC input) or AC source (100 to 250 VAC input)
- Shelves are 19" or 23" rack mounted, ETSI rack flanges are available
- Mating cables are available for shelves with Telco connectors on the rear panels

Quad Notch Filter Module, X41667

The Raven 41667 Quad Notch Filter Module provides four signal paths, each with flat pass band response except near the notch frequency. Notch frequencies range from 60 Hz to 5 KHz, customer specified. The 41667 filter can be installed inside the same shelf as the bridge modules eliminating the need for external notch filters. Amplifiers are incorporated to provide adjustable gain input to output, with a +30 dB to -18 dB adjustment range. Notch rejection greater than 60 dB.

ORDERING INFORMATION

MODEL	SIZE	BRIDGE*	PORTS	CABLES
40100-4082 (shown above)	1 RU 1.75"	4-way, 6-way, 8-way or any two combined	4, 6, 8 or up to 14 <i>if daisy chained, externally</i>	
40200-208	2 RU 3.5"	4-way, 6-way, 8-way or any combination	4, 6, 8 or up to 50 <i>if externally daisy chained</i>	R250-0023 Male to wires straight
40200-4850-50	2 RU 3.5"	Up to eight 8-way bridges	7 or up to 50 <i>daisy chained, internally</i>	R250-0020 Male to female right angle R250-0021 Male to male right angle R250-0023 Male to wires straight
40200-4885	2 RU 3.5"	Up to eight 4-way bridges	4 or up to 18 <i>if daisy chained, externally</i>	
41000-204	3 RU 5.25"	4-way, 6-way, 8-way or up to 15 any combination	4, 6, 8 or up to 80 <i>if daisy chained, externally</i>	R250-0023 Male to wires straight

* Bridge modules can be modified from conference bridges to be summing/splitting bridges at no additional cost. Specify MOD-102 for the 4-way and 6-way; specify MOD-142 for the 8-way bridge module.

Bridge Specifications

PORT IMPEDANCE

INPUT/OUTPUT: 600 ohms, balanced circuits using transformer coupling.
Other impedances are available on special order.

POWER REQUIREMENTS

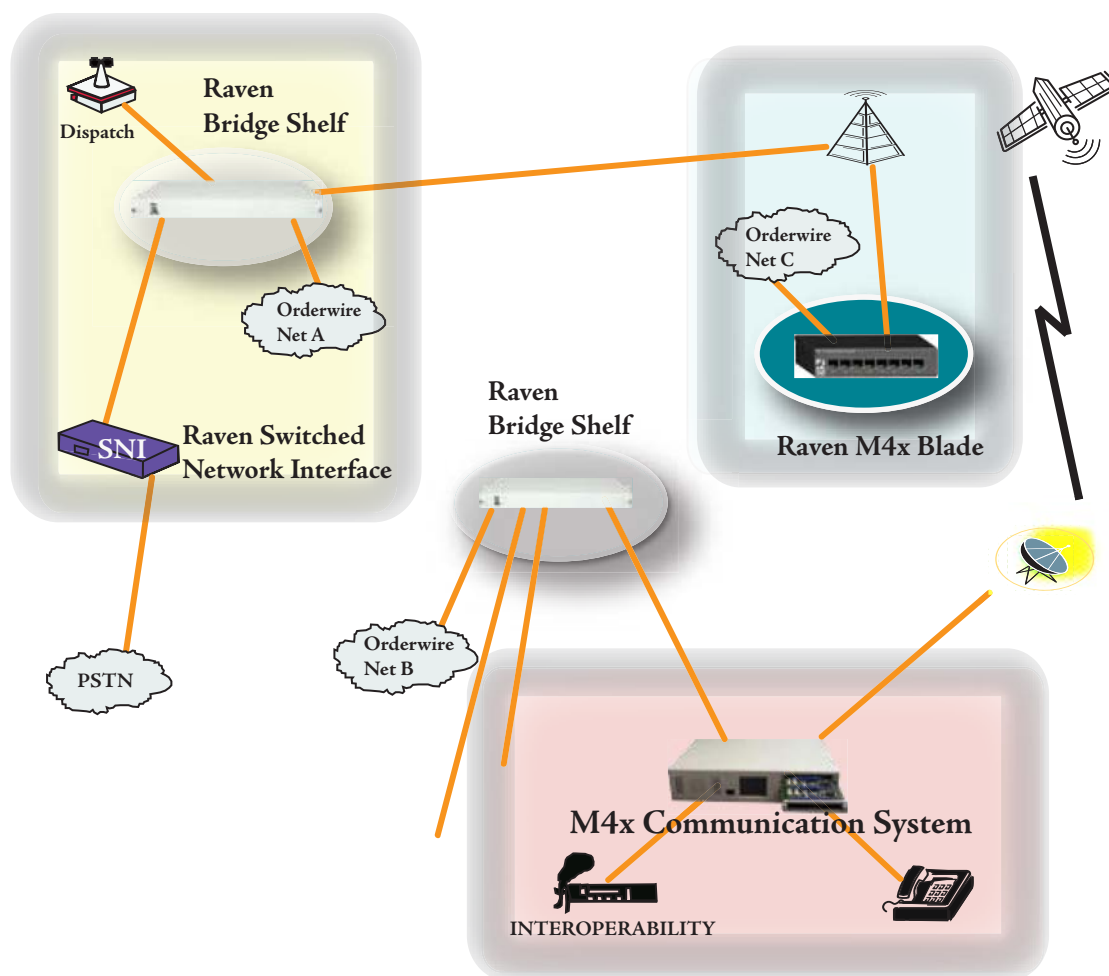
DC SOURCE: -24 to -56 VDC, 0.1 amp max per bridge module
AC SOURCE: 100 to 250 VAC, 50-60 Hz, 2 Watts max per bridge module

ENVIRONMENTAL REQUIREMENTS

AMBIENT TEMPERATURE: 0 to +50° C
RELATIVE HUMIDITY: 95% maximum, non-condensing
OPERATING ALTITUDE: 15,000 ft. maximum

DIMENSIONS

WEIGHT: 12 lbs. maximum
DEPTH: 14.75 inches
WIDTH: 17.25 inches



Call us today to learn more about Raven's family of specialized communications products. Raven is an engineering factory focused on public safety, military and commercial communications--- your "idea shop" committed to solving engineering problems and exceeding expectations.



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