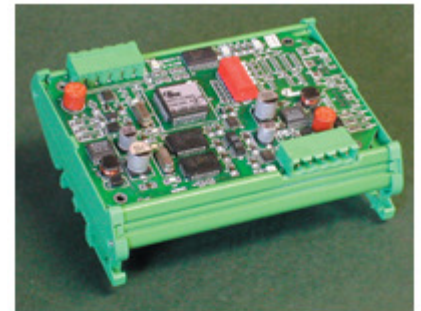# CAN bus Extenders
WRC-CANX Series

WRC CAN bus Extenders boost signal levels, allowing longer cable lengths, longer trunk lines, and longer drop lines without sacrificing network speed. CAN bus Extenders permit maximum network speed and throughput on CAN, J1939, or DeviceNet network devices, resulting in better control of the process. In addition extenders require no configuration when used in DeviceNet applications as they are configured for autobaud operation.

Key Features:

- Expands the usable applications for DeviceNet, J1939, SDS, and other CAN V2.0, Part A and Part B compatible CAN bus systems
- Enables the creation of star, tree and other non-linear network topologies which increases flexibility in system design and reduces installation costs
- Works with both trunk lines and drop lines
- Allows operation at higher speeds for specific distances
- Operates at 9.6K to 1M fixed baud for J1939 or CAN networks
- Auto-detects baud rate on DeviceNet (125k, 250k, or 500k baud)
- Isolates the two sections of the CAN bus (copper wire)
- Extender operation is transparent to Master and Slave devices
- Powered from the CAN bus network
- Pluggable 5-pin DeviceNet connections (WRC-CANX-DIN-DN)
- Sealed NEMA-4X enclosure (WRC-CANX-NEM-DN)
- Standard round, mini-style connector with male pins for copper cable (WRC-CANX-NEM-DN)
- Standard CAN chips manage CAN bus error detection and handle message bus arbitration
- Less than 900 μsec latency
- Termination resistor built in on the CAN bus interfaces

Series IV Enhancements include:

- Expanded DIP switch settings allow selection for CAN bus speeds up to 1M baud
- Made enhancements to allow for adding Custom baud rates in the future

WRC-CANX-DIN-DN

WRC-CANX-NEM-DN

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WRC Western Reserve Controls

P3 PROSOFT PARTNER PROGRAM

Hardware Specifications

Specification	Description
Baud Rate	9.6K, 10K, 20K, 40K, 50K, 100K, 125K, 250K, 500K, 800K and 1M baud fixed or auto-detect DeviceNet baud
Bus Connection	**WRC-CANX-DIN:** Extender: 5-pin pluggable header (male) Phoenix Contact MSTBA 2.5/5-G-5.08/AU CAN bus Cable: 5-contact plug (female) Phoenix Contact MSTB 2.5/5-ST-5.08/AU (included) **WRC-CANX-NEM:** Standard M18 mini connector, male pins, male threads
LED Indicators	MS - Module Status: green/red bi-color NSA - Copper Network A Status: green/red bi-color NSB - Copper Network B Status: green/red bi-color DGN - Diagnostic Data: green/red bi-color
Maximum Power	Voltage: 11 to 25 Vdc Current: Network A: 110mA @ 11 Vdc to 60mA @ 25 VDC Network B: 20mA @ 11 Vdc to 10mA @ 25 Vdc Power: 1.5 W
Dimensions	**WRC-CANX-DIN**: Length: 4.32" (110 mm) Depth: 1.79" (45.5 mm) Height: 3.44" (87.4 mm) **WRC-CANX-NEM:** Length**:** 5.11" (130 mm) Depth: 2.27" (57.7 mm) Height: 3.70" (94.0 mm)
Operating Temp	0 ºC to 70 ºC
Humidity	Up to 95% RH, with no condensation

Ordering Information

WRC-CANX-DIN-DN
CAN bus Extender (DIN, open frame)

WRC-CANX-NEM-DN
CAN bus Extender (NEMA4x)

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