RabbitNet™ RN1200

A/D Expansion Card

$73 (qty. 100)

The RabbitNet RN1200 A/D card is the second in a series of peripheral I/O cards designed for use with Z-World controller products with RabbitNet expansion ports, such as the BL2500 Coyote and OP7200 eDisplay. The cards are DIN rail mountable and have friction-lock connectors for simplified OEM manufacturability.

RabbitNet

RabbitNet expansion ports enable a modular and expandable embedded control system whose configuration of expansion cards can be tailored to a large variety of demanding real-time control, display, and data-acquisition applications. A typical RabbitNet system consists of a master single-board computer and one or more peripheral cards. A high-performance Rabbit 3000® or Rabbit 2000® microprocessor on the master provides fast data processing, and the BL2500 master also provides the DCIN and +5 V power for the peripheral cards.

Programming RabbitNet Cards

Programs are developed and debugged using Z-World's industry-proven Dynamic C® software, which runs on a Windows PC. The A/D card is a slave; the master to which RabbitNet boards are connected is programmed using version 8.01 or later of Z-World's Dynamic C.
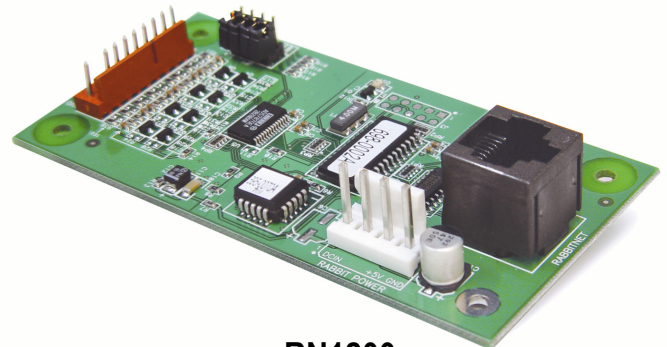
Dynamic C includes comprehensive debugging support and includes break points, watch expressions and many other extensive features oriented toward real-time embedded systems programming. An extensive library of drivers and sample programs is provided, including a royalty-free TCP/IP stack for network and Internet communications. Full source code is provided for most library routines. Dynamic C is sold separately.

Connectivity Tools

Z-World offers a connectivity kit for wiring assemblies that interface with the friction-lock connectors on the A/D card.

Hardware Features

- 8 single-ended 11-bit or 4 differential 12-bit analog inputs
- Software-controlled voltage ranges
- 100 mm DIN rail tray mountable
- RabbitNet interface: 1 Megabit per second using standard Ethernet cable, up to 10 m (33 ft) away from master (RS-422)

RN1200

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RN1200 A/D Expansion Card Specifications & Features

FEATURE	RN1200
RabbitNet™ Serial Port	RS-422, 1 Mbps
Analog Inputs	8 single-ended 11-bit or 4 differential 12-bit analog inputs 1 M input impedance, 2.5 ksamples/s sampling rate, all 8 channels can be configured as 11-bit 4-20 mA analog inputs Software-controlled ranges: 0-1 V, 2 V, 5 V, 10 V, 20 V DC (single ended) or ±1 V, ±2 V, ±5 V, ±10 V, ±20 V DC (differential)
Power	Vcc: +5 V DC, 100 mA
Operating Temp.	–40°C to +70°C
Humidity	5–95%, noncondensing
Connectors	Friction-lock connectors: • One polarized 9-position terminals with 0.1" pitch • One 4-position terminal with 0.156" pitch • One RJ-45 RabbitNet™ jack
Board Size	1.94" × 3.94 " × 0.67" (50 × 100 × 17 mm)
Pricing (qty. 1/100) Part Number	$89/73 101-0616
Connectivity Kit Part Number	$18 101-0581

Connectivity Kit (sold separately) includes:

- Six 1 x 10 friction-lock connectors (0.1" pitch) with sixty 0.1" crimp terminals
- Two 1 X 4 friction-lock connectors (0.156" pitch)

- Two 1 x 2 friction-lock connectors (0.156" pitch) with fifteen 0.156" crimp terminals

Each kit contains sufficient parts to interface with two A/D Cards (only fifty-four 0.1" crimp terminals and twelve 0.156" crimp terminals are actually used).

RabbitNet System

Internet/Ethernet — Master Controller BL2500 — Any two can be used with the BL2500.

Digital I/0 RN1100 — A/D Card RN1200 — D/A Card RN1300 — Relay Card RN1400 — Keypad/Display Interface* RN1600

* Does not support two RN1600 cards on one BL2500

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