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RN1400 RabbitNet
Relay Expansion Card

The RabbitNet RN1400 relay card is the fourth in a series of peripheral I/O cards designed for use with Rabbit

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controller products with RabbitNet expansion ports, such as the BL2500 Coyote and OP7200 eDisplay. The relay card is DIN rail mountable.

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 Rabbit's industry-proven Dynamic C® software, which runs on a Windows PC. The relay expansion card is a slave; the master to which RabbitNet boards are connected is programmed using version 8.01 or later of Rabbit'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.
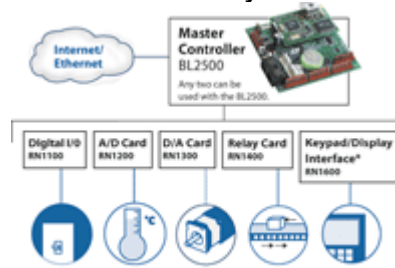
Connectivity Tools
Rabbit offers a connectivity kit for wiring assemblies that interface with the friction-lock connectors on the relay card.

Hardware Features

- 6 SPDT relays
- 10 A maximum switching current (5 A DC)
- 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)

Chat Closed

Documentation

• RabbitNet Peripheral Cards User's Manual
  HTML | PDF (2.8M)
• RN1400 Schematic
  PDF (155K)

More Documentation ≫

Product Selection Guide

• PDF (24K)

RabbitNet System

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RN1300 D/A Expansion Card Specifications

FEATURE	RN1400
Microprocessor	ST72F264G
Relay Outputs	6 SPDT relays: ● Max. contact settling time: 10 ms ● Max. switching voltage: 250 VAC, 125 VDC ● Max. switching current: 10A AC, 8A DC ● Max. switching capacity: 1200 V·A AC, 240 W DC ● Snubbers: Built-in 47 Ω , 100 nF ● Terminal wire gauge: #14 AWG (1.628 mm dia) max.
RabbitNet™ Serial Port	RS-422, 1 Mbps
Power	+5 V, 500 mA (all relays engaged) Power save mode: 250 mA (all relays engaged)
Operating Temp.	-40°C to +70°C
Humidity	5-95%, noncondensing
Connectors	● Six screw terminal headers ● One 4-position friction-lock connector with 0.156" pitch ● One RJ-45 RabbitNet™ jack
Board Size	3.94 " × 5.87" x 0.75" (100 x 150 × 19 mm)
Part Number	20-101-1198

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