Color Touchscreen ™

Application Kit

Key Features

- RCM3720 RabbitCore™

    - Rabbit 3000 @ 22.1 MHz
    - 512K Flash / 256K SRAM
    - 10Base-T Ethernet, RJ-45 port
    - 33 digital I/O, alternate I/O bus
    - 4 serial ports
      (IrDA, HDLC, asynch, sync, SPI)
    - 3.3 V (with 5 V-tolerant I/O)
    - Small footprint

- Reach Technology Color
  Touchscreen

    - Rugged, industrial enclosure
    - Audible beeper for audible touch
      feedback and alarms
    - 5.7" TFT Hitachi Display
    - Waterproof NEMA 4
      compliant steel enclosure.
    - Supports user-created bitmaps
      with RLE compression
      (512K of flash memory)
    - Backlight enable and
      brightness control

Design Advantages

- Ideal for network-enabling security
  and access systems, remote
  automation, data logging, and
  industrial controls when coupled
  with RabbitWeb, FAT File System
  and SSL software modules
- Color touchscreen adds a modern
  look to an embedded system
- Complete microprocessor, on-board
  memory, royalty-free TCP/IP stack,
  and hundreds of sample programs
  reduce time-to-market by months

Applications

- Network-Enabling Security
- Access Systems
- Building Automation
- HVAC Systems
- Industrial Controls
- Other Key Applications

Color Touchscreen Application Kit – Control at your finger tips!

The Reach Technology Color Touchscreen with a RabbitCore creates an application kit that provides embedded systems integrators the ability to add advanced interface functionality to embedded systems. Color touchscreens provide real-time feedback, allowing for better control in industrial-automation applications.

The Color Touchscreen Application Kit provides all the necessary tools to incorporate a color touchscreen into a Rabbit-based embedded system.

RCM3720 RabbitCore
The Rabbit 3000 microprocessor-based RCM3720 core module is designed for Ethernet/Internet applications, and features 512K Flash / 256K SRAM, 4 serial ports, and an extremely small footprint (2.95" × 1.20" / 75 × 30 mm).

Controller and TFT Color Touch Screen
The Reach Technology SLCD controller allows an LCD graphic display to be accessed as an intelligent serial device.

Text can be written to the display and graphic images shown by using high-level commands. The touchscreen interface enables buttons to be defined on-screen, and return a serial string when touched. User-defined bitmaps provide a modern-looking interface, and include tabbed document interface pages and many different types of controls, such as radio buttons and check boxes.

Industrial Enclosure
This steel enclosure holds the SLCD board, industrial 12-24 V DC power supply, and the Hitachi 5.7" panel. The unit supports either RS-232 or RS-485 communications. The enclosure is easily mounted and waterproof.
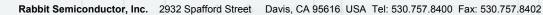
RABBIT Semiconductor

www.rabbitsemiconductor.com

Color Touchscreen Application Kit
Reach Technology Color Touchscreen
RCM3720 RabbitCore

RCM3720 RabbitCore Specifications

Feature	RCM3720
Microprocessor	Rabbit 3000 at 22.1 MHz
Ethernet Connectivity	10Base-T, RJ-45
Flash	512K
SRAM	256K
Serial Flash	1MB
Backup Battery	Connection for user-supplied battery
General-Purpose I/O	33 digital I/O • 31 configurable I/O • 2 fixed outputs
Additional Input	Reset
Auxiliary I/O Bus	Can be configured for 8 data and 5 address lines (shared with parallel I/O lines), plus I/O read/write
Serial Ports	Four 3.3 V CMOS-compatible • 4 configurable as asynchronous (with IrDA) • 3 as clocked serial (SPI) and 1 as HDLC (with IrDA), or 1 SPI and 2 SDLC/HDLC • 1 asynchronous serial port dedicated for programming
Power	Input: 4.75-5.25 V DC, 100 mA @ 22.1 MHz; 78 mA @ 11.06 MHz
Operating Temp.	–40°C to +70°C
Humidity	5–95%, noncondensing
Connectors	Single 2 x 20, 0.1" (2.54 mm) header
Board Size	2.95" × 1.20 " × 0.89" (75 × 30 × 23 mm)

Reach Technology Color Touch Screen Specifications

Feature	Reach Technology Color Touchscreen
Power Supply	12VDC ±10%, 650mA 24VDC ±10%, 350mA
Environmental	**Temperature:** -10°C to +70°C Operating -30°C to +80°C Storage, max 48 hours **Humidity:** If ambient < 40°C, RH 85% max; otherwise must be lower than the humidity at 40°C and RH 85% **Vibration shock:** see panel specification
Weight	2.65 lb / 1.2 kg
Enclosure	Painted steel bezel, yellow chromate inner mount and case Bezel provides NEMA 4 class waterproof capability when properly mounted on a flat plate
Touchscreen	Four-wire resistive type
Backlight	50,000 hour typical to half initial brightness 280 cd/m² typical brightness at mid-range of backlight brightness control
Interface	• Serial RS-232 • ESD protected transceiver Serial RS-422 • ESD protected transceiver Serial RS-485, full or half duplex
Certifications	FCC Part 15, Class A CE Certification

Color Touchscreen Application Kit Pricing

Color Touchscreen Application Kit	$999	
	U.S. 101-1062	Int'l 101-1063

RCM3720 RabbitCore Pricing

Pricing (qty. 1/100) Part Number	$55/45 101-0961

Optional Software Modules Pricing

RabbitWeb Software Module Part Number	$159 Shipped CD 101-0900	$149 Download 101-0910
FAT File System Software Module Part Number	$159 Shipped CD 101-0979	$149 Download 101-0984
SSL Software Module Part Number	$299 Shipped CD 101-0896	$289 Download 101-0895

Application Kit includes:

- RCM3720 RabbitCore with Prototyping Board
- Reach Technology SLCD Graphics Touch Terminal with NEMA 4 steel enclosure
- Supplemental CD's
- Dynamic C development system and complete documentation on CD-ROM
- User manuals, sample programs and libraries
- 5 serial and conversion cables
- Two AC adapters (U.S./Canada only)

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