ABOUT THE PRODUCT

RENESAS
Everywhere you imagine.

R8C/27 Group(16-BIT CMOS MCU)

If you are learning microcontrollers or want to develop embedded solution based on standard RENESAS, this board will help you quick start with the application by giving you access to everything required to run the microcontroller. Board supports RS232 Communication for R8C21276 series microcontroller through Flash Development Toolkit 4.05 Basic.

RENESAS
R8C/27

LCD DISPLAY

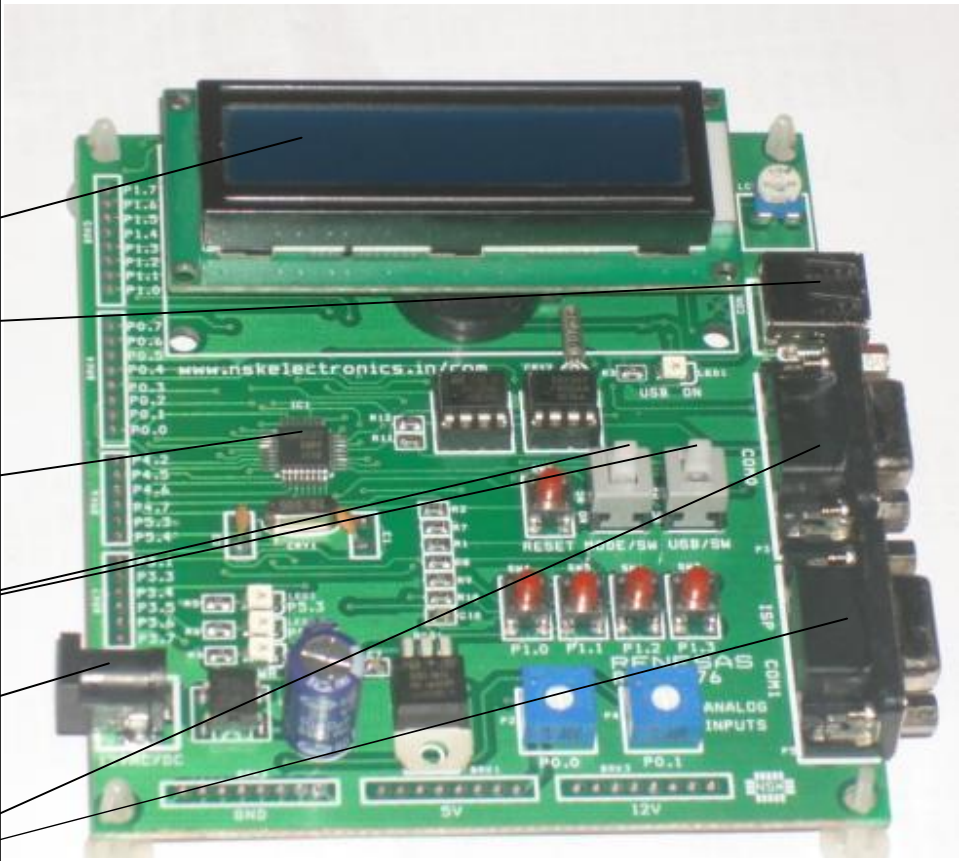
SERIAL USB

R5F21276NFP

PUSH
SWITCHES

12V SUPPLY

2 UARTS



Peripheral Functions

- **Ports I/O ports: 25 pins, Input port: 3 pins**
- **LED drive ports I/O ports: 8 pins**
- **Timers ::**
  Timer RA:8 bits × 1 channel
  Timer RB:8 bits × 1 channel
  (Each timer equipped with 8-bit prescaler)
  Timer RC:16 bits × 1 channel
  (Input capture and output compare circuits)
  Timer RE:With real-time clock and compare match Function (For J, K version, compare match function only.)
- **Serial interfaces 2 channels (UART0, UART1)**
  Clock synchronous serial I/O, UART
- **Clock synchronous serial interface 1 channel**
  I2C bus Interface(1) Clock synchronous serial I/O with chip select
- **LIN module Hardware LIN: 1 channel (timer RA, UART0)**
- **A/D converter 10-bit A/D converter: 1 circuit, 12 channels**
- **Watchdog timer 15 bits × 1 channel (with prescaler) Start-on-reset selectable**
- **Interrupts ::Internal:15 sources, External: 4 sources, Software:4 sources, Priority levels: 7 levels**

Clock generation circuits :3 circuits

- **XIN clock generation circuit (with on-chip feedback resistor)**
- **On-chip oscillator (high speed, low speed)**

High-speed on-chip oscillator has a frequency adjustment function

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- **XCIN clock generation circuit (32 kHz) (N, D version)**
- **Real-time clock (timer RE) (N, D version)**

- **Oscillation-stopped detector :XIN clock oscillation stop detection function**
- **Voltage detection circuit On-chip**
- **Power-on reset circuit On-chip**

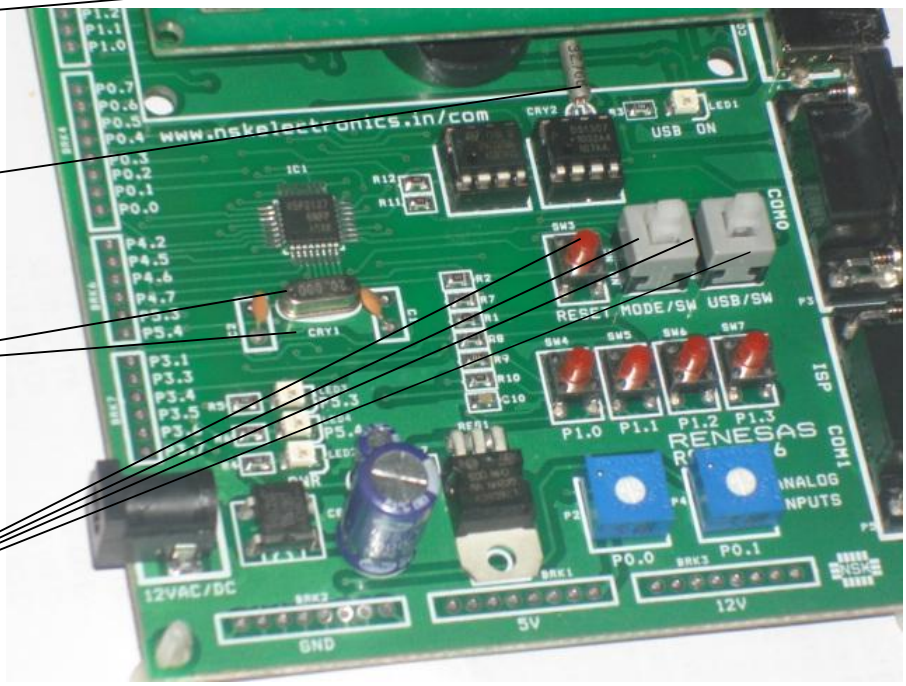
EEPROM (24C04)

RTC(DS1307)

RESET SWITCH

TWO OUTPUT LEDS

4 INTERRUPT SWITCHES



NSK RENESAS Board Features

NSK RENESAS Board consist of 2 UART's and one USB PROG port. You can load the program through any one by changing USB/SW push switch(RS232 OR USB).

- Using USB port, push the USB/SW switch and change the com port number in flasher then load the program .
- Using RS232 open the USB/SW give 12 V power supply and change the com port number in flasher then burn the program.

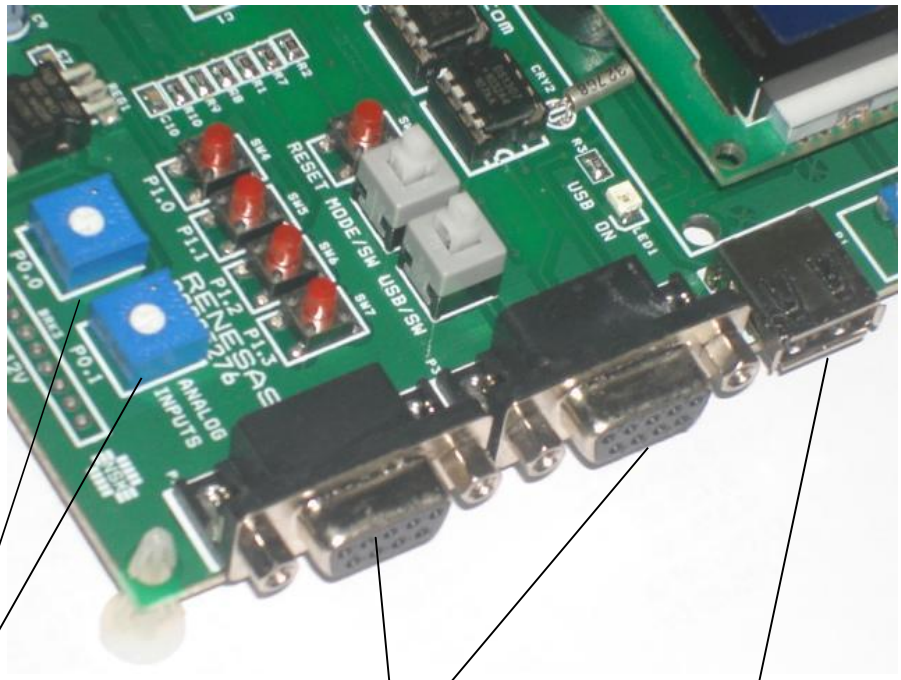
For program mode push the mode switch and open the mode switch for run mode.

Two external ADC port pins, P0.0 and P0.1 . Four external interrupts switches.

On board Regulated Power Supply 5v,12v supply.

RTC and EEPROM IC's, external **Crystal, Reset Switch, Power LED and output LEDS ,16X2 LCD display port included on board.**

MORE IMAGES



2 ADC PORT's 2 SERIAL UARTS 1 SERIAL FOR USB

P0.0 & P0.1