



GENTOS

Application Note #001

(AN001-V1.2)

ZZA

[MiDAS1.0 / 1.1] Using UART RXD pin as External Interrupt

V1.2

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1. Issue

- ◆ If a customer wants to use more external interrupt source than those supported by devices,
 - ✓ The customer can convert **UART RXD pin** to an additional external interrupt source.

2. Replace Function to Its Content

1. Set SCON to 0x90 for UART mode 2 and reception enable.
 - Customer can set UART mode 0, 1 or 3, but the response time in these modes is very slow.
 - For fast response time, you had better use the UART mode2.
 - Note: In UART mode 0, UART TXD pin outputs shift clock.
2. Set PCON.7 for double baudrate.
3. Wait for RXD pin to be low.
4. Device will set RI to 1 after 155 clock cycles.
5. Device enters a corresponding interrupt routine.
6. Clear bit RI in the interrupt routine.
7. Escape from the interrupt routine.