CE-158 IO D000H~D00F 16 bytes  
CE-158 UART D200~D203 4 Bytes  
CE-158 Interrupt Port address DE00~DFFF

**Sharp LH5811 Registers (0xD000 – 0xD00F)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address | Reg Sel  3210 | Reg Name | Function |  |
| 0x0 |  |  |  |  |
| 0x1 |  |  |  |  |
| 0x2 |  |  |  |  |
| 0x3 |  |  |  |  |
| 0x4 | 0100 |  | Reset Internal Divider |  |
| 0x5 | 0101 |  | Reads U Register |  |
| 0x6 |  |  |  |  |
| 0x7 | 0111 | F Register | Clock rate for Serial Port |  |
| 0x8 | 1000 | OPC | Port C | PC4-PC0 = BAUD Rate Bits  PC5 = DA1  PC6 = Strobe  PC7 = Init |
| 0x9 | 1001 | G Register | CLK Selection |  |
| 0xA | 1010 | MSK Register | Interrupt Masks | PB7 Busy |
| 0xB | 1011 | IF Register | Serial Data Ctl | B0 = IRQ Input |
| 0xC | 1100 | DDA | Data Dir Port A | PA7,PA6 = Part of Baud Rate |
| 0xD | 1101 | DDB | Data Dir Port B | PB7 = Busy |
| 0xE | 1110 | OPA | I/O Port A | PA0 = DTR - OUT  PA1 = RTS - OUT  PA2 = CTS - IN  PA3 = CD - IN  PA4 = DSR - IN  PA6 = BAUD - OUT  PA7 = BAUD - OUT |
| 0xF | 1111 | OPB | I/O Port B | PB7 = Busy  PB6 –PB0 = DA7-DA2 |

**Intersil CDP1854A UART – 0xD200-0xD203**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Address | RD/WR- | Reg Name | Function |  |
| 0 | WR- | THR | Transmitter Holding Register |  |
| 0 | RD | RHR | Receive Holding Register |  |
| 1 | WR- |  | Write Ctl Register | B0 = Parity Inhibit  B1 = Even/Odd Parity Enable  B2 = Stop Bits  B3 = Word Length 1  B4 = Word Length 2  B5 = Interrupt Enable  B6 = Tx Break  B7 = TX Request |
| 1 | RD |  | Read Status Register | Parity Error  Framing Error  Overrun Error |

# Baud rates for TI DUART

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3,686,400MHz | | | 7,372,800MHz | | |
| Baud | DEC | HEX | Baud | DEC | HEX |
| 50 | 4608 | 1200 | 50 | 9216 | 2400 |
| 100 | 2304 | 0900 | 100 | 4608 | 1200 |
| 110 | 2094.54545 | 082E | 110 | 4189.09091 | 105D |
| 200 | 1152 | 0480 | 200 | 2304 | 0900 |
| 300 | 768 | 0300 | 300 | 1536 | 0600 |
| 600 | 384 | 0180 | 600 | 768 | 0300 |
| 1200 | 192 | 00C0 | 1200 | 384 | 0180 |
| 2400 | 96 | 0060 | 2400 | 192 | 00C0 |
| 9600 | 24 | 0018 | 9600 | 48 | 0030 |
| 19200 | 12 | 000C | 19200 | 24 | 0018 |
| 38400 | 6 | 0006 | 38400 | 12 | 000C |