

## CB-1 Peripheral Port Mapping to MINI-MAX Microcontroller Board Family

| CB-1<br>Feature    | Exp. Conn.<br>Pin Number | Active<br>When | Universal<br>Pin Names | Exp. Conn. J4<br>51 | Exp. Conn. X6<br>AVR-C | Exp. Conn. X6<br>AVR-AU | Exp. Conn. X8<br>AVR-BU | Exp. Conn. J3<br>ARM | Exp. Conn. X1<br>ARM9260 | Exp. Conn. J4<br>P18 | Exp. Conn. X3<br>MSP430 |
|--------------------|--------------------------|----------------|------------------------|---------------------|------------------------|-------------------------|-------------------------|----------------------|--------------------------|----------------------|-------------------------|
|                    | 1                        |                | GND                    | GND                 | GND                    | GND                     | GND                     | GND                  | GND                      | GND                  | GND                     |
|                    | 2                        |                | VCC (+5V)              | VCC (+5V)           | VCC (+5V)              | VCC (+5V)               | VCC (+5V)               | VCC (+5V)            | VCC (+5V)                | VCC (+5V)            | VCC (+5V)               |
|                    | 3                        |                | GND                    | GND                 | GND                    | GND                     | GND                     | GND                  | GND                      | GND                  | GND                     |
|                    | 4                        |                | VCC (+5V)              | VCC (+5V)           | VCC (+5V)              | VCC (+5V)               | VCC (+5V)               | VCC (+5V)            | VCC (+5V)                | VCC (+5V)            | VCC (+5V)               |
|                    | 5                        |                | I2C SDA                | P1.7                | PD1                    | PC5                     | PD1                     | P0.3                 | PA23                     | RC4                  | P3.7                    |
|                    | 6                        | N/A            | I2C SCL                | P1.6                | PD0                    | PC6                     | PD0                     | P0.2                 | PA24                     | RC3                  | P5.4                    |
|                    | 7                        |                | IO4                    | P1.5                | PD6                    | PD1                     | PF7                     | P0.14                | PC1                      | RA2                  | P2.4                    |
| Interrupt ( ARM )  | 8                        | N/A            | IO5                    | P1.4                | PD7                    | PD4                     | PE7                     | P0.15                | PA6                      | RC5                  | P2.5                    |
|                    | 9                        |                | IO2                    | P1.3                | PB6                    | PD0                     | PF6                     | P0.12                | PB15                     | RA1                  | P2.2                    |
|                    | 10                       | LOW            | IO3                    | P1.2                | PB7                    | PC4                     | PE6                     | P0.13                | PB14                     | RA0                  | P2.3                    |
|                    | 11                       | LOW            | IO0                    | P1.1                | PB4                    | PC7                     | PF5                     | P0.10                | PB16                     | RC2                  | P2.0                    |
| Interrupt ( AVR )  | 12                       | LOW            | IO1                    | P1.0                | PB5                    | PC2                     | PE5                     | P0.11                | PB17                     | RB7                  | P2.1                    |
| SPI MOSI           | 13                       | LOW            | MOSI                   | P3.7                | PB2                    | PB2                     | PB2                     | P0.6                 | PB1                      | RA5                  | P3.1                    |
| SPI Chip Select 2  | 14                       |                | IO22                   | P3.6                | PC7                    | PB7                     | PE4                     | P1.24                | PA31                     | RC0                  | P2.7                    |
| SPI Chip Select 1  | 15                       | LOW            | SS                     | P3.5                | PB0                    | PB0                     | PB0                     | P0.7                 | PB3                      | RA4                  | P3.0                    |
| SPI Clock          | 16                       | LOW            | SCK                    | P3.4                | PB1                    | PB1                     | PB1                     | P0.4                 | PB2                      | RC1                  | P3.3                    |
| SPI MISO           | 17                       | LOW            | MISO                   | P3.3                | PB3                    | PB3                     | PB3                     | P0.5                 | PB0                      | RB3 or RB5           | P3.2                    |
| Interrupt ( 8051 ) | 18                       | LOW            | IO6                    | P3.2                | PH2                    | PB6                     | PE1                     | P0.26                | PA30                     | RB6                  | P2.6                    |
|                    | 19                       |                | /TXD2                  | P3.1                | PH1                    | PD3                     | PD3                     | P0.0                 | PB8                      | RC6                  | P1.6                    |
|                    | 20                       |                | /RXD2                  | P3.0                | PH0                    | PD2                     | PD2                     | P0.1                 | PB9                      | RC7                  | P1.5                    |