



# Pinout Comparison Table

| PIN# | Transceiver (MSA)           | Single Transmitter (MSA)    | Single Receiver (MSA)       | Transceiver (Non-MSA) | Single Transmitter (Non-MSA) | Single Receiver (Non-MSA) | Dual Transmitter (Non-MSA) | Dual Receiver (Non-MSA) | Single Bidir (Non-MSA) |
|------|-----------------------------|-----------------------------|-----------------------------|-----------------------|------------------------------|---------------------------|----------------------------|-------------------------|------------------------|
| 1    | VEE                         | VEE                         | VEE                         | VEE                   | VEE                          | VEE                       | VEE                        | VEE                     | VEE                    |
| 2    | TX_FAULT (VEE for coax)     | TX_FAULT (VEE for coax)     | VEE                         | VEE                   | VEE                          | VEE                       | NC                         | RX2-                    | VEE                    |
| 3    | TX_DIS                      | TX_DIS                      | NC                          | NC                    | NC                           | NC                        | NC                         | RX2+                    | NC                     |
| 4    | MOD_DEF(2) - SDA            | MOD_DEF(2) - SDA            | MOD_DEF(2) - SDA            | VEE                   | VEE                          | VEE                       | VEE                        | VEE                     | VEE                    |
| 5    | MOD_DEF(1) - SCL            | MOD_DEF(1) - SCL            | MOD_DEF(1) - SCL            | SCL                   | SCL                          | SCL                       | SCL                        | SCL                     | SCL                    |
| 6    | MOD_DEF(0) - PRESENCE (VEE) | MOD_DEF(0) - PRESENCE (VEE) | MOD_DEF(0) - PRESENCE (VEE) | SDA                   | SDA                          | SDA                       | SDA                        | SDA                     | SDA                    |
| 7    | Rate (NC)                   | Rate (NC)                   | Rate (NC)                   | VEE                   | VEE                          | VEE                       | VEE                        | VEE                     | VEE                    |
| 8    | LOS                         | NC                          | LOS                         | RX1_LOS               | NC                           | RX1_LOS                   | TX2+                       | NC                      | RX1_LOS                |
| 9    | VEE                         | VEE                         | VEE                         | NC                    | NC                           | NC                        | TX2-                       | NC                      | NC                     |
| 10   | VEE                         | VEE                         | VEE                         | NC                    | NC                           | NC                        | TX2_DIS                    | NC                      | NC                     |
| 11   | VEE                         | VEE                         | VEE                         | VEE                   | VEE                          | VEE                       | VEE                        | VEE                     | VEE                    |
| 12   | RD-                         | NC                          | RD-                         | RX1-                  | NC                           | RX1-                      | NC                         | RX1-                    | RX1-                   |
| 13   | RD+                         | NC                          | RD+                         | RX1+                  | NC                           | RX1+                      | NC                         | RX1+                    | RX1+                   |
| 14   | VEE                         | VEE                         | VEE                         | VEE                   | VEE                          | VEE                       | VEE                        | VEE                     | VEE                    |
| 15   | VCC                         | VCC                         | VCC                         | VCC                   | VCC                          | VCC                       | VCC                        | VCC                     | VCC                    |
| 16   | VCC                         | VCC                         | VCC                         | VCC                   | VCC                          | VCC                       | VCC                        | VCC                     | VCC                    |
| 17   | VEE                         | VEE                         | VEE                         | VEE                   | VEE                          | VEE                       | VEE                        | VEE                     | VEE                    |
| 18   | TD+                         | TD+                         | NC                          | TX1+                  | TX1+                         | NC                        | TX1+                       | NC                      | TX1+                   |
| 19   | TD-                         | TD-                         | NC                          | TX1-                  | TX1-                         | NC                        | TX1-                       | NC                      | TX1-                   |
| 20   | VEE                         | VEE                         | VEE                         | TX1_DIS               | TX1_DIS                      | NC                        | TX1_DIS                    | NC                      | TX1_DIS                |

Embrionix product's datasheet override the generic pinout table. Please also consult the Embrionix datasheet of the product(s) you design for.