# Card to Baseboard Interface

Connection to the baseboard shall be implemented using DIN41612 type R connectors.

Connectors shall have 48 pins in 3 columns.

Suggested parts:

Baseboard: Amphenol FCI 86093487614755ELF

Card: Amphenol FCI 86093488613755E1LF

## Mechanical requirements

### Card

The connector shall be placed as follows:

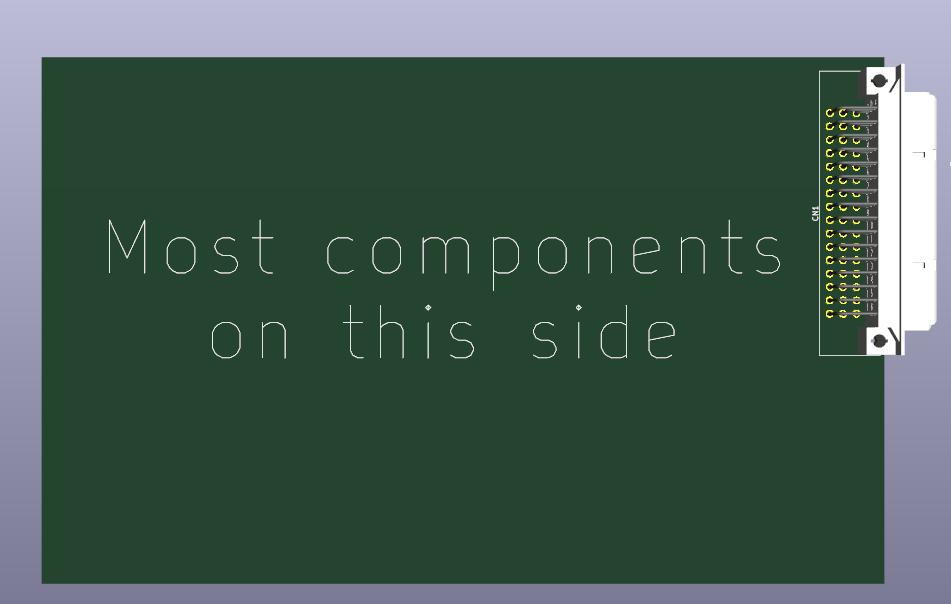


Figure 1 – Example PCB showing connector location

When looking from the component side of the card, a1 should be in the top right corner of the connector, dimensioned as per the Eurocard standard. This shown in Figure 2.

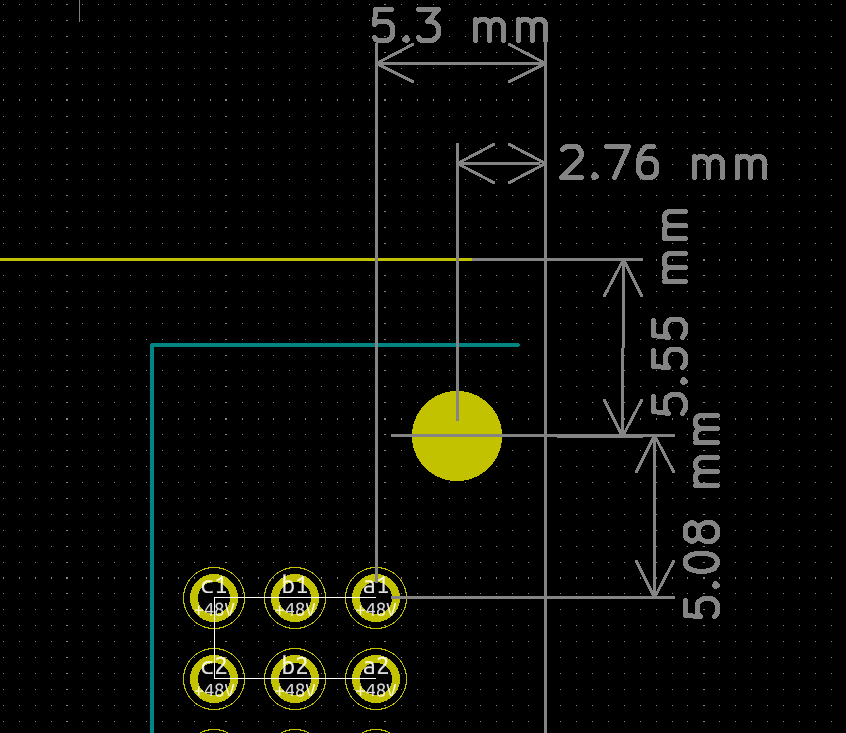


Figure 2 – Eurocard connector positioning requirements

## Pinout

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | a | b | c |  |  |  |
| 1 | +48V | +48V | +48V | 1 |  |  |
| 2 | +48V | +48V | +48V | 2 |  | Power |
| 3 | **0V** | **0V** | **0V** | 3 |  | **Ground** |
| 4 | +24V | +24V | +24V | 4 |  | RS485 |
| 5 | +24V | +24V | +24V | 5 |  | PSU EEPROM |
| 6 | **0V** | **0V** | **0V** | 6 |  | Address EEPROM |
| 7 | +12V | +12V | +12V | 7 |  | Spare |
| 8 | +12V | +12V | +12V | 8 |  |  |
| 9 | **0V** | **0V** | **0V** | 9 |  |  |
| 10 | **0V** | **0V** | **0V** | 10 |  |  |
| 11 | 3V3\_OUT | SDA | B | 11 |  |  |
| 12 | WP | SCL | A | 12 |  |  |
| 13 |  |  |  | 13 |  |  |
| 14 |  |  |  | 14 |  |  |
| 15 | 3V3\_IN | SDA | SCL | 15 |  |  |
| 16 | ADDR2 | ADDR1 | ADDR0 | 16 |  |  |
|  | a | b | c |  |  |  |

Figure 3 – Card to Baseboard connector (using standard DIN41612 pin numbering)