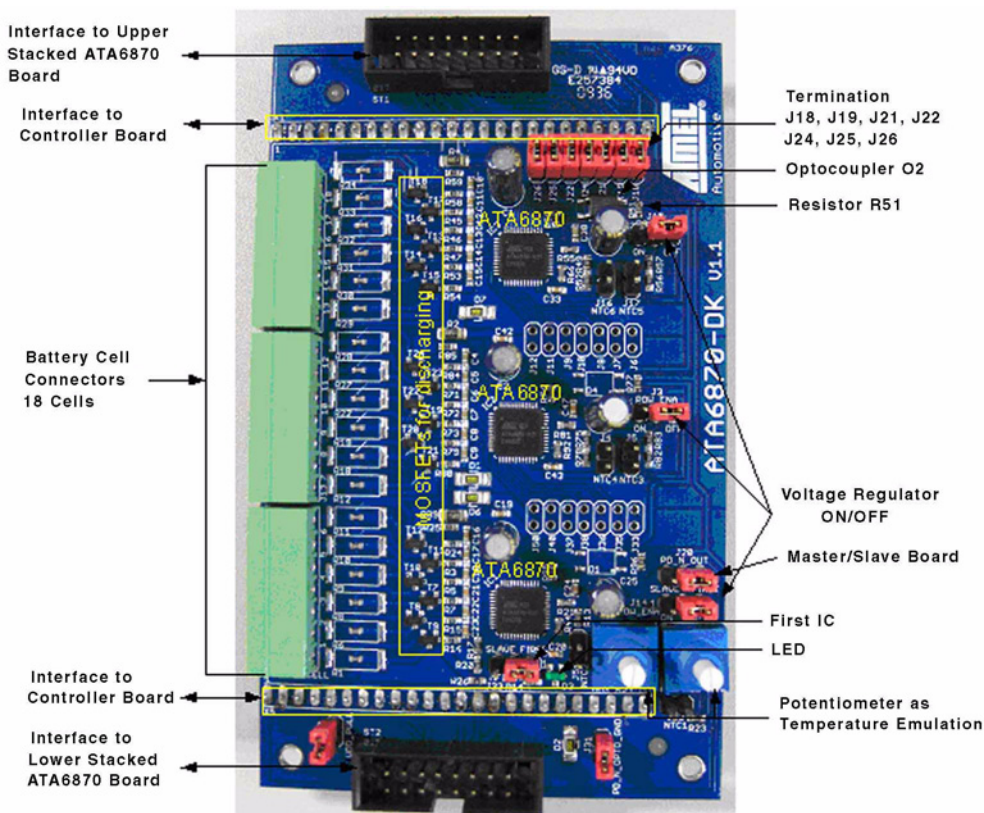




How to Operate the ATA6870 Evaluation Board with Lower IC Count

1. Default Configuration of Shipped Evaluation Board – Operation with 3 ICs

Figure 1-1. Configuration for ATA6870-DK Operation with 3 ICs



How to Operate the ATA6870 Evaluation Board

Application Note

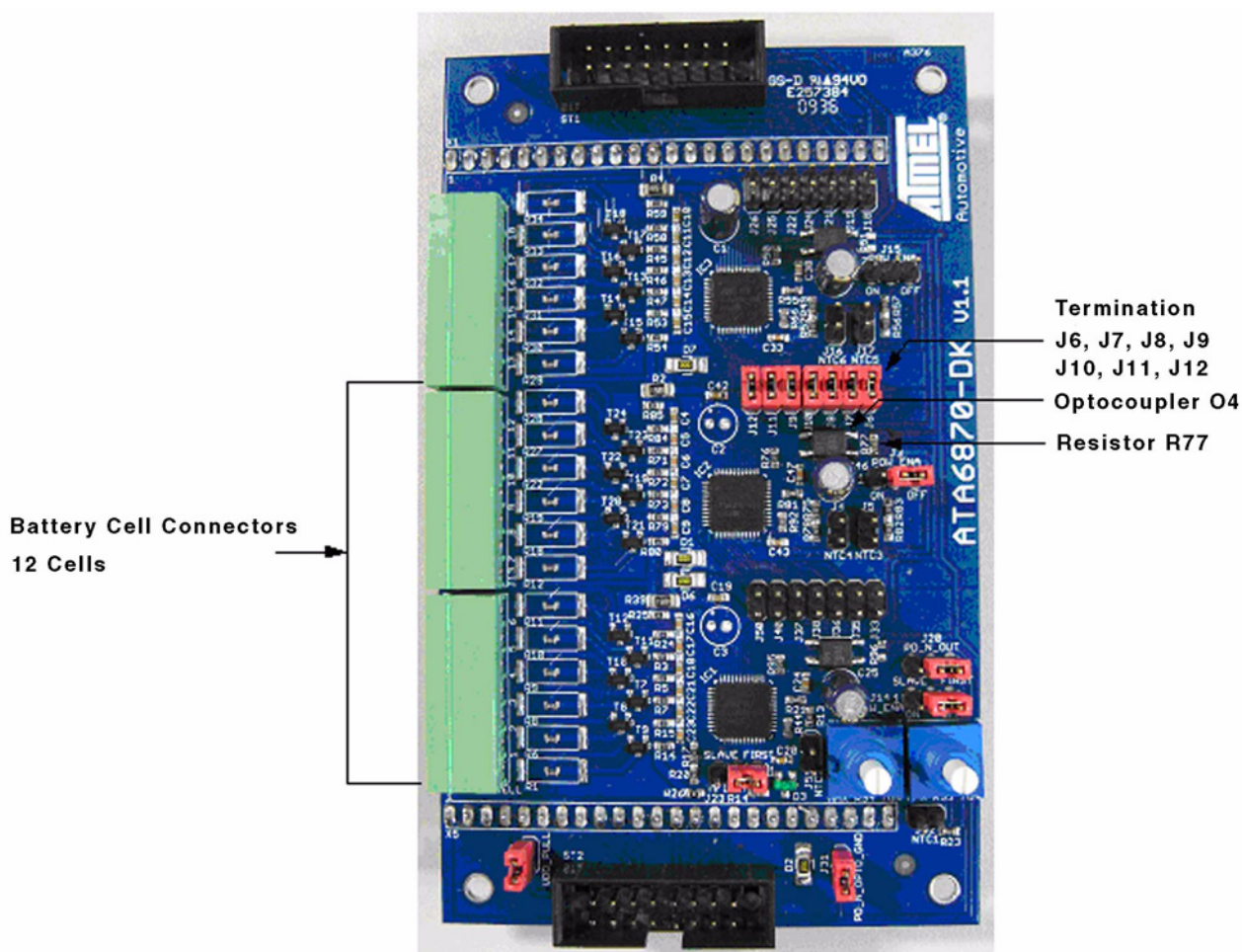


2. Configuration for 2 IC Operation - 12 Battery Cells

To operate the evaluation board with only two ATA6870 devices, modifications regarding termination and optocoupler have to be done (see [Figure 2-1](#)).

- Remove termination jumpers J18, J19, J21, J22, J24, J25, J26 from the 3 IC configuration
- Remove optocoupler O2 or resistor R51
- Populate termination jumpers J6, J7, J8, J9, J10, J11, J12
- Populate optocoupler O4 and resistor R77 (330Ω)
- Connect the battery cells or an appropriate battery emulator to the two lower cell connectors of the board (see [Figure 2-1](#)).

Figure 2-1. Configuration for 2 IC (12 Cell) Operation



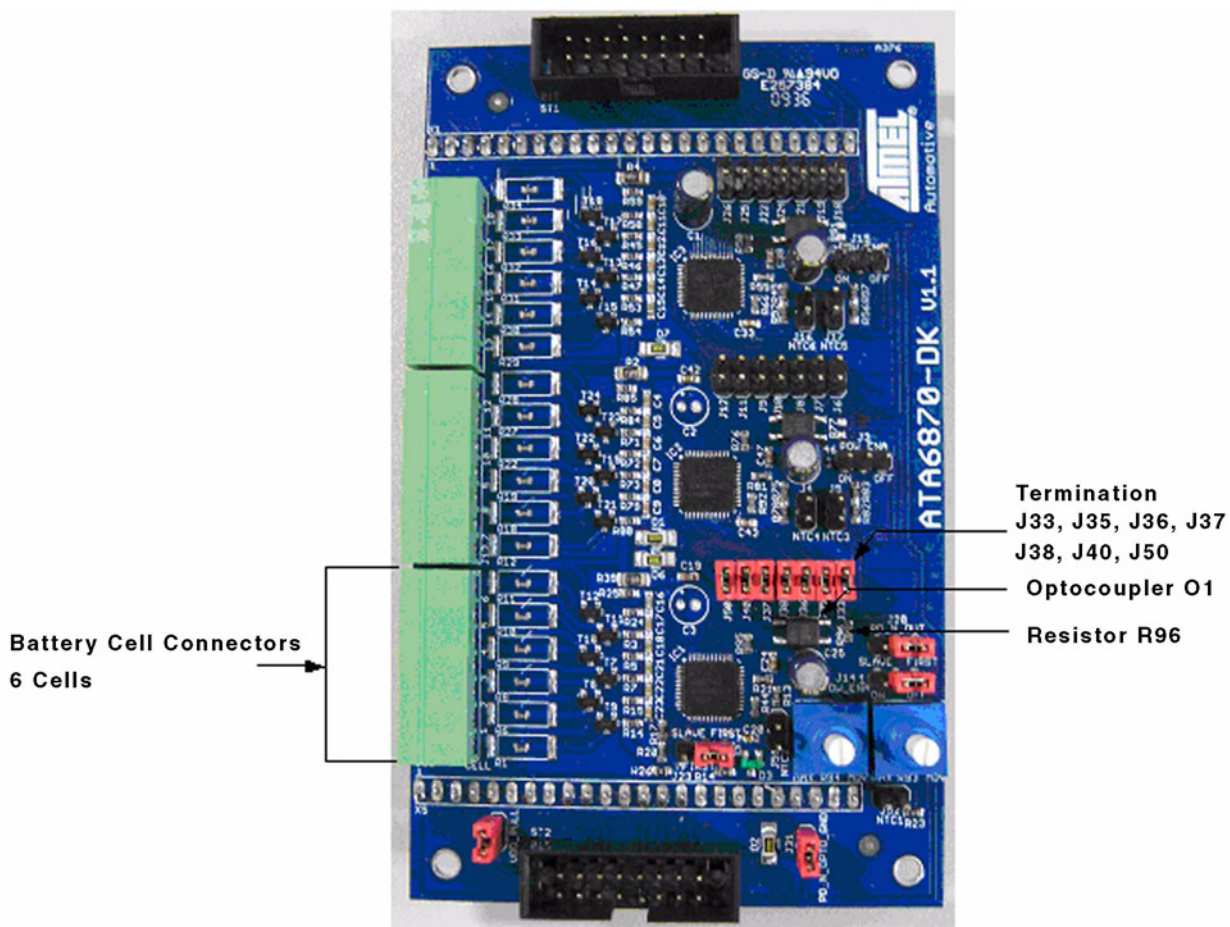
How to Operate the ATA6870 Evaluation Board

3. Configuration for 1 IC Operation - 6 Battery Cells

To operate the evaluation board with only one IC, modifications regarding termination and optocoupler have to be done (see [Figure 3-1](#)).

- Remove termination jumpers J18, J19, J21, J22, J24, J25, J26
- Remove optocoupler O2 or resistor R51
- Populate termination jumpers J33, J35, J36, J37, J38, J40, J50
- Populate optocoupler O1 and resistor R96 (330Ω)
- Connect the battery cells or an appropriate battery emulator to the lowest connector of the board (see [Figure 3-1](#))

Figure 3-1. Configuration for 1 IC (6 Cell) Operation





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