

SILICON LABS Digital Isolators and POE



RoHS Compliant This product is RoHS compliant.

ISOPRO BI-DIRECTIONAL I²C COMPATIBLE DIGITAL ISOLATORS

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | Silicon Labs Part No. | Package | Forward Data Channels | Reverse Data Channels | Max. Data Rate (Mbps) | Insulation Rating | Bidirectional Serial Data | Bidirectional Serial Clock | Temp. Range (°C) | Price Each | | | |
|--------------------|-----------------------|------------|-----------------------|-----------------------|-----------------------|-------------------|---------------------------|----------------------------|------------------|------------|------|------|------|
| | | | | | | | | | | 1 | 25 | 100 | 1000 |
| 634-SI8400AA-B-IS | SI8400AA-B-IS | NB SOIC-8 | 0 | 0 | 1.7 | 1.0kV | Yes | Yes | -40 to +125 | 3.63 | 3.39 | 2.98 | 2.76 |
| 634-SI8400AB-B-IS | SI8400AB-B-IS | NB SOIC-8 | 0 | 0 | 1.7 | 2.5kV | Yes | Yes | -40 to +125 | 3.80 | 3.55 | 3.12 | 2.89 |
| 634-SI8401AA-B-IS | SI8401AA-B-IS | NB SOIC-8 | 1 | 1 | 1.7 | 5.0kV | Yes | Yes | -40 to +125 | 3.63 | 3.39 | 2.98 | 2.76 |
| 634-SI8401AB-B-IS | SI8401AB-B-IS | NB SOIC-8 | 1 | 1 | 1.7 | 5.0kV | Yes | Yes | -40 to +125 | 3.80 | 3.55 | 3.12 | 2.89 |
| 634-SI8405AA-B-IS1 | SI8405AA-B-IS1 | NB SOIC-16 | 1 | 1 | 1.7 | 1.0kV | Yes | Yes | -40 to +125 | 4.05 | 3.78 | 3.32 | 3.08 |
| 634-SI8405AB-B-IS1 | SI8405AB-B-IS1 | NB SOIC-16 | 1 | 1 | 1.7 | 2.5kV | Yes | Yes | -40 to +125 | 4.35 | 4.06 | 3.57 | 3.30 |

| Description | | | | | | | | | | Price Each | | | |
|-------------------|---------------|---|--|--|--|--|--|--|--|------------|--|--|--|
| Evaluation Kit | | | | | | | | | | 40.00 | | | |
| 634-SI840X12C-KIT | SI840X12C-KIT | Evaluation kit provides a convenient engineering break out board for easy evaluation of the SI840x series of I2C isolators. | | | | | | | | 40.00 | | | |

BI-DIRECTIONAL I2C COMPATIBLE DIGITAL ISOLATORS WITH UNIDIRECTIONAL DIGITAL CHANNELS

The SI86xx family is the industry's highest performing, widest channel count series of unidirectional and bidirectional isolators supporting up to 5kV and reinforced isolation ratings. Based on Silicon Labs' patented isolation technology, SI86xx isolators enable robust operation in harsh industrial applications.

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | Silicon Labs Part No. | Package | Forward Data Channels | Reverse Data Channels | Max. Data Rate (Mbps) | Bidirectional Channels | Unidirectional Channels | Insulation Rating | Default Output State | Temp. Range (°C) | Price Each | | | |
|-------------------|-----------------------|------------|-----------------------|-----------------------|-----------------------|------------------------|-------------------------|-------------------|----------------------|------------------|------------|------|------|------|
| | | | | | | | | | | | 1 | 25 | 100 | 250 |
| 1.0kV | | | | | | | | | | | | | | |
| 634-SI8641BA-B-IU | SI8641BA-B-IU | QSOP-16 | 3 | 1 | 150 | 0 | 4 | 1.0kV | Low | -40 to +125 | 2.77 | 2.59 | 2.27 | 2.10 |
| 634-SI8642BA-B-IU | SI8642BA-B-IU | QSOP-16 | 2 | 2 | 150 | 0 | 4 | 1.0kV | Low | -40 to +125 | 2.77 | 2.59 | 2.27 | 2.10 |
| 634-SI8645BA-B-IU | SI8645BA-B-IU | QSOP-16 | 4 | 0 | 150 | 0 | 4 | 1.0kV | Low | -40 to +125 | 2.77 | 2.59 | 2.27 | 2.10 |
| 634-SI8655BA-B-IU | SI8655BA-B-IU | WB SOIC-16 | 5 | 0 | 150 | 0 | 5 | 1.0kV | Low | -40 to +125 | 3.12 | 2.91 | 2.56 | 2.37 |
| 634-SI8655BA-B-IS | SI8655BA-B-IS | QSOP-16 | 5 | 0 | 150 | 0 | 5 | 1.0kV | Low | -40 to +125 | 3.12 | 2.91 | 2.56 | 2.37 |

| | | | | | | | | | | | | | | |
|--------------------|----------------|------------|---|---|-----|---|---|--------|------|-------------|------|------|------|------|
| 3.75kV | | | | | | | | | | | | | | |
| 634-SI8600AC-B-IS | SI8600AC-B-IS | SOIC-8 | 0 | 0 | 1.7 | 2 | 1 | 3.75kV | Low | -40 to +125 | 3.80 | 3.55 | 3.12 | 2.89 |
| 634-SI8602AC-B-IS | SI8602AC-B-IS | SOIC-8 | 0 | 0 | 1.7 | 1 | 1 | 3.75kV | Low | -40 to +125 | 3.43 | 3.21 | 2.82 | 2.61 |
| 634-SI8605AC-B-IS1 | SI8605AC-B-IS1 | NB SOIC-16 | 0 | 0 | 1.7 | 2 | 2 | 3.75kV | Low | -40 to +125 | 4.35 | 4.06 | 3.57 | 3.30 |
| 634-SI8606AC-B-IS1 | SI8606AC-B-IS1 | NB SOIC-16 | 0 | 0 | 1.7 | 2 | 2 | 3.75kV | Low | -40 to +125 | 4.35 | 4.06 | 3.57 | 3.30 |
| 634-SI8610BC-B-IS | SI8610BC-B-IS | SOIC-8 | 1 | 0 | 150 | 0 | 1 | 3.75kV | Low | -40 to +125 | 2.10 | 1.96 | 1.72 | 1.60 |
| 634-SI8610EC-B-IS | SI8610EC-B-IS | SOIC-8 | 1 | 0 | 150 | 0 | 1 | 3.75kV | High | -40 to +125 | 2.10 | 1.96 | 1.72 | 1.60 |
| 634-SI8620BC-B-IS | SI8620BC-B-IS | SOIC-8 | 2 | 0 | 150 | 0 | 2 | 3.75kV | Low | -40 to +125 | 2.28 | 2.13 | 1.87 | 1.73 |
| 634-SI8621BC-B-IS | SI8621BC-B-IS | SOIC-8 | 2 | 0 | 150 | 0 | 2 | 3.75kV | Low | -40 to +125 | 2.28 | 2.13 | 1.87 | 1.73 |
| 634-SI8621EC-B-IS | SI8621EC-B-IS | SOIC-8 | 1 | 1 | 150 | 0 | 2 | 3.75kV | High | -40 to +125 | 2.28 | 2.13 | 1.87 | 1.73 |
| 634-SI8622BC-B-IS | SI8622BC-B-IS | SOIC-8 | 1 | 1 | 150 | 0 | 2 | 3.75kV | Low | -40 to +125 | 2.28 | 2.13 | 1.87 | 1.73 |
| 634-SI8622EC-B-IS | SI8622EC-B-IS | SOIC-8 | 1 | 1 | 150 | 0 | 2 | 3.75kV | High | -40 to +125 | 2.28 | 2.13 | 1.87 | 1.73 |
| 634-SI8630BC-B-IS1 | SI8630BC-B-IS1 | WB SOIC-16 | 3 | 0 | 150 | 0 | 3 | 3.75kV | Low | -40 to +125 | 3.00 | 2.80 | 2.46 | 2.28 |
| 634-SI8630EC-B-IS1 | SI8630EC-B-IS1 | NB SOIC-16 | 3 | 0 | 150 | 0 | 3 | 3.75kV | High | -40 to +125 | 3.00 | 2.80 | 2.46 | 2.28 |
| 634-SI8631BC-B-IS1 | SI8631BC-B-IS1 | NB SOIC-16 | 2 | 1 | 150 | 0 | 3 | 3.75kV | Low | -40 to +125 | 3.00 | 2.80 | 2.46 | 2.28 |
| 634-SI8631EC-B-IS1 | SI8631EC-B-IS1 | NB SOIC-16 | 2 | 1 | 150 | 0 | 3 | 3.75kV | High | -40 to +125 | 3.00 | 2.80 | 2.46 | 2.28 |
| 634-SI8635BC-B-IS1 | SI8635BC-B-IS1 | NB SOIC-16 | 3 | 0 | 150 | 0 | 3 | 3.75kV | Low | -40 to +125 | 3.00 | 2.80 | 2.46 | 2.28 |
| 634-SI8640BC-B-IS1 | SI8640BC-B-IS1 | NB SOIC-16 | 4 | 0 | 150 | 0 | 4 | 3.75kV | Low | -40 to +125 | 3.52 | 3.29 | 2.89 | 2.68 |
| 634-SI8640EC-B-IS1 | SI8640EC-B-IS1 | NB SOIC-16 | 4 | 0 | 150 | 0 | 4 | 3.75kV | High | -40 to +125 | 3.52 | 3.29 | 2.89 | 2.68 |
| 634-SI8641BC-B-IS1 | SI8641BC-B-IS1 | NB SOIC-16 | 3 | 1 | 150 | 0 | 4 | 3.75kV | Low | -40 to +125 | 3.52 | 3.29 | 2.89 | 2.68 |
| 634-SI8641EC-B-IS1 | SI8641EC-B-IS1 | NB SOIC-16 | 3 | 1 | 150 | 0 | 4 | 3.75kV | High | -40 to +125 | 3.52 | 3.29 | 2.89 | 2.68 |
| 634-SI8642BC-B-IS1 | SI8642BC-B-IS1 | NB SOIC-16 | 2 | 2 | 150 | 0 | 4 | 3.75kV | Low | -40 to +125 | 3.52 | 3.29 | 2.89 | 2.68 |
| 634-SI8642EC-B-IS1 | SI8642EC-B-IS1 | NB SOIC-16 | 2 | 2 | 150 | 0 | 4 | 3.75kV | High | -40 to +125 | 3.52 | 3.29 | 2.89 | 2.68 |
| 634-SI8645BC-B-IS1 | SI8645BC-B-IS1 | NB SOIC-16 | 4 | 0 | 150 | 0 | 4 | 3.75kV | Low | -40 to +125 | 3.52 | 3.29 | 2.89 | 2.68 |
| 634-SI8650BC-B-IS1 | SI8650BC-B-IS1 | NB SOIC-16 | 5 | 0 | 150 | 0 | 5 | 3.75kV | Low | -40 to +125 | 3.96 | 3.70 | 3.25 | 3.01 |
| 634-SI8651BC-B-IS1 | SI8651BC-B-IS1 | NB SOIC-16 | 4 | 1 | 150 | 0 | 5 | 3.75kV | Low | -40 to +125 | 3.96 | 3.70 | 3.25 | 3.01 |
| 634-SI8651EC-B-IS1 | SI8651EC-B-IS1 | NB SOIC-16 | 4 | 1 | 150 | 0 | 5 | 3.75kV | High | -40 to +125 | 3.96 | 3.70 | 3.25 | 3.01 |
| 634-SI8652BC-B-IS1 | SI8652BC-B-IS1 | NB SOIC-16 | 3 | 2 | 150 | 0 | 5 | 3.75kV | Low | -40 to +125 | 3.96 | 3.70 | 3.25 | 3.01 |
| 634-SI8652EC-B-IS1 | SI8652EC-B-IS1 | NB SOIC-16 | 3 | 2 | 150 | 0 | 5 | 3.75kV | High | -40 to +125 | 3.96 | 3.70 | 3.25 | 3.01 |
| 634-SI8660BA-B-IS1 | SI8660BA-B-IS1 | NB SOIC-16 | 6 | 0 | 150 | 0 | 6 | 3.75kV | Low | -40 to +125 | 4.75 | 4.44 | 3.90 | 3.61 |
| 634-SI8660BC-B-IS1 | SI8660BC-B-IS1 | NB SOIC-16 | 6 | 0 | 150 | 0 | 6 | 3.75kV | Low | -40 to +125 | 4.75 | 4.44 | 3.90 | 3.61 |
| 634-SI8660EC-B-IS1 | SI8660EC-B-IS1 | NB SOIC-16 | 6 | 0 | 150 | 0 | 6 | 3.75kV | High | -40 to +125 | 4.75 | 4.44 | 3.90 | 3.61 |
| 634-SI8661BC-B-IS1 | SI8661BC-B-IS1 | NB SOIC-16 | 5 | 1 | 150 | 0 | 6 | 3.75kV | Low | -40 to +125 | 4.75 | 4.44 | 3.90 | 3.61 |
| 634-SI8661EC-B-IS1 | SI8661EC-B-IS1 | NB SOIC-16 | 5 | 1 | 150 | 0 | 6 | 3.75kV | High | -40 to +125 | 4.75 | 4.44 | 3.90 | 3.61 |
| 634-SI8662BC-B-IS1 | SI8662BC-B-IS1 | NB SOIC-16 | 4 | 2 | 150 | 0 | 6 | 3.75kV | Low | -40 to +125 | 4.75 | 4.44 | 3.90 | 3.61 |
| 634-SI8662EC-B-IS1 | SI8662EC-B-IS1 | NB SOIC-16 | 4 | 2 | 150 | 0 | 6 | 3.75kV | High | -40 to +125 | 4.75 | 4.44 | 3.90 | 3.61 |
| 634-SI8663BC-B-IS1 | SI8663BC-B-IS1 | NB SOIC-16 | 3 | 3 | 150 | 0 | 6 | 3.75kV | Low | -40 to +125 | 4.75 | 4.44 | 3.90 | 3.61 |
| 634-SI8663EC-B-IS1 | SI8663EC-B-IS1 | NB SOIC-16 | 3 | 3 | 150 | 0 | 6 | 3.75kV | High | -40 to +125 | 4.75 | 4.44 | 3.90 | 3.61 |

| | | | | | | | | | | | | | | |
|-------------------|---------------|------------|---|---|-----|----------------|---|-------|------|-------------|------|------|------|------|
| 5.0kV | | | | | | | | | | | | | | |
| 634-SI8600AD-B-IS | SI8600AD-B-IS | WB SOIC-16 | 0 | 0 | 1.7 | 2 | 0 | 5.0kV | Low | -40 to +125 | 4.59 | 4.29 | 3.77 | 3.49 |
| 634-SI8602AD-B-IS | SI8602AD-B-IS | WB SOIC-16 | 0 | 0 | 1.7 | 1 | 1 | 5.0kV | Low | -40 to +125 | 4.14 | 3.86 | 3.39 | 3.14 |
| 634-SI8605AD-B-IS | SI8605AD-B-IS | WB SOIC-16 | 0 | 0 | 1.7 | 2 | 2 | 5.0kV | Low | -40 to +125 | 5.22 | 4.88 | 4.29 | 3.97 |
| 634-SI8610BD-B-IS | SI8610BD-B-IS | WB SOIC-16 | 1 | 0 | 150 | 0 | 1 | 5.0kV | Low | -40 to +125 | 2.19 | 2.04 | 1.80 | 1.66 |
| 634-SI8610ED-B-IS | SI8610ED-B-IS | SOIC-8 | 1 | 0 | 150 | 0 | 1 | 5.0kV | High | -40 to +125 | 2.19 | 2.04 | 1.80 | 1.66 |
| 634-SI8620BD-B-IS | SI8620BD-B-IS | WB SOIC-16 | 2 | 0 | 150 | 0 | 2 | 5.0kV | Low | -40 to +125 | 2.26 | 2.11 | 1.85 | 1.72 |
| 634-SI8620ED-B-IS | SI8620ED-B-IS | WB SOIC-16 | 2 | 0 | 150 | 0 | 2 | 5.0kV | High | -40 to +125 | 2.26 | 2.11 | 1.85 | 1.72 |
| 634-SI8621ED-B-IS | SI8621ED-B-IS | WB SOIC-16 | 1 | 1 | 150 | 0 | 2 | 5.0kV | High | -40 to +125 | 2.26 | 2.11 | 1.85 | 1.72 |
| 634-SI8622BD-B-IS | SI8622BD-B-IS | WB SOIC-16 | 1 | 1 | 150 | Unidirectional | 2 | 5.0kV | Low | -40 to +125 | 2.26 | 2.11 | 1.85 | 1.72 |
| 634-SI8630BD-B-IS | SI8630BD-B-IS | WB SOIC-16 | 3 | 0 | 150 | 0 | 3 | 5.0kV | Low | -40 to +125 | 3.24 | 3.03 | 2.66 | 2.46 |
| 634-SI8631BD-B-IS | SI8631BD-B-IS | WB SOIC-16 | 2 | 1 | 150 | 0 | 3 | 5.0kV | Low | -40 to +125 | 3.24 | 3.03 | 2.66 | 2.46 |
| 634-SI8631ED-B-IS | SI8631ED-B-IS | WB SOIC-16 | 2 | 1 | 150 | 0 | 3 | 5.0kV | High | -40 to +125 | 3.24 | 3.03 | 2.66 | 2.46 |
| 634-SI8635BD-B-IS | SI8635BD-B-IS | WB SOIC-16 | 3 | 0 | 150 | 0 | 3 | 5.0kV | Low | -40 to +125 | 3.24 | 3.03 | 2.66 | 2.46 |
| 634-SI8640BD-B-IS | SI8640BD-B-IS | WB SOIC-16 | 4 | 0 | 150 | 0 | 4 | 5.0kV | Low | -40 to +125 | 4.03 | 3.77 | 3.31 | 3.06 |
| 634-SI8640ED-B-IS | SI8640ED-B-IS | WB SOIC-16 | 4 | 0 | 150 | 0 | 4 | 5.0kV | High | -40 to +125 | 4.03 | 3.77 | 3.31 | 3.06 |
| 634-SI8641BD-B-IS | SI8641BD-B-IS | WB SOIC-16 | 3 | 1 | 150 | 0 | 4 | 5.0kV | Low | -40 to +125 | 4.03 | 3.77 | 3.31 | 3.06 |
| 634-SI8641ED-B-IS | SI8641ED-B-IS | WB SOIC-16 | 3 | 1 | 150 | 0 | 4 | 5.0kV | High | -40 to +125 | 4.03 | 3.77 | 3.31 | 3.06 |
| 634-SI8642BD-B-IS | SI8642BD-B-IS | WB SOIC-16 | 2 | 2 | 150 | 0 | 4 | 5.0kV | Low | -40 to +125 | 4.03 | 3.77 | 3.31 | 3.06 |
| 634-SI8642ED-B-IS | SI8642ED-B-IS | WB SOIC-16 | 2 | 2 | 150 | 0 | 4 | 5.0kV | High | -40 to +125 | 4.03 | 3.77 | 3.31 | 3.06 |
| 634-SI8651BD-B-IS | SI8651BD-B-IS | WB SOIC-16 | 4 | 1 | 150 | 0 | 5 | 5.0kV | Low | -40 to +125 | 5.05 | 4.72 | 4.14 | 3.84 |
| 634-SI8651ED-B-IS | SI8651ED-B-IS | WB SOIC-16 | 4 | 1 | 150 | 0 | 5 | 5.0kV | High | -40 to +125 | 5.05 | 4.72 | 4.14 | 3.84 |