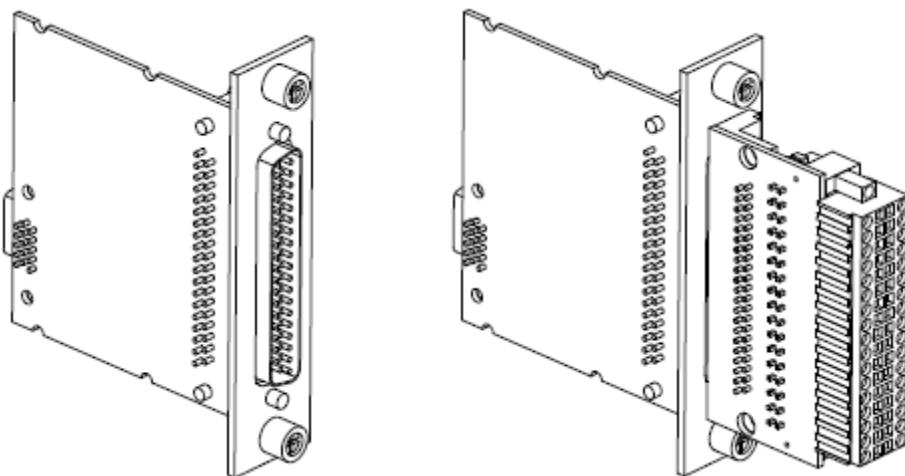


DATASHEET

MT E762

24 V, 32-Channel (Sourcing Input), 7 us



- DSUB or push-in Spring Terminal connectivity
- 60 VDC, CAT I, channel-to-earth isolation;
- -40 °C to 70 °C operating;

The MT E762 is a digital input module for RobustRIO and FlexDAQ systems. The MT E762 works with industrial logic levels and signals to connect directly to a wide array of industrial switches, transducers, and devices. Each digital input line is compatible with 24V logic level. There are two connector options for the MT E762--a 34-position spring-terminal connector and a 37-position DSUB connector.

MT E762 Connectivity

Pin definition of DSUB connector and Spring Terminal connector.

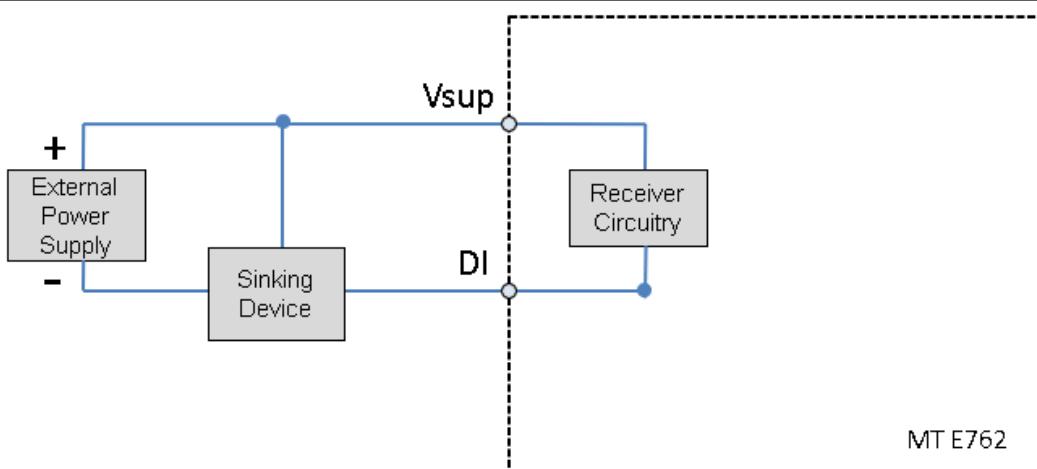
DSUB

| | | | |
|------|----|----|------|
| DI16 | 20 | 1 | DI0 |
| DI17 | 21 | 2 | DI1 |
| DI18 | 22 | 3 | DI2 |
| DI19 | 23 | 4 | DI3 |
| DI20 | 24 | 5 | DI4 |
| DI21 | 25 | 6 | DI5 |
| DI22 | 26 | 7 | DI6 |
| DI23 | 27 | 8 | DI7 |
| COM | 28 | 9 | COM |
| COM | 29 | 10 | COM |
| DI24 | 30 | 11 | DI8 |
| DI25 | 31 | 12 | DI9 |
| DI26 | 32 | 13 | DI10 |
| DI27 | 33 | 14 | DI11 |
| DI28 | 34 | 15 | DI12 |
| DI29 | 35 | 16 | DI13 |
| DI30 | 36 | 17 | DI14 |
| DI31 | 37 | 18 | DI15 |
| | | 19 | Vsup |

Spring Terminal

| | | | |
|------|----|----|------|
| DI16 | 18 | 1 | DI00 |
| DI17 | 19 | 2 | DI01 |
| DI18 | 20 | 3 | DI02 |
| DI19 | 21 | 4 | DI03 |
| DI20 | 22 | 5 | DI04 |
| DI21 | 23 | 6 | DI05 |
| DI22 | 24 | 7 | DI06 |
| DI23 | 25 | 8 | DI07 |
| DI24 | 26 | 9 | DI08 |
| DI25 | 27 | 10 | DI09 |
| DI26 | 28 | 11 | DI10 |
| DI27 | 29 | 12 | DI11 |
| DI28 | 30 | 13 | DI12 |
| DI29 | 31 | 14 | DI13 |
| DI30 | 32 | 15 | DI14 |
| DI31 | 33 | 16 | DI15 |
| COM | 34 | 17 | Vsup |

Input Circuitry



There are 32 digital input channels. All channels are internally referenced to COM.

MT E762 Specifications

The following specifications are typical for the range -40 °C to 70 °C unless otherwise noted. All voltages are relative to COM unless otherwise noted.

Input Characteristics

| | |
|--|------------------------------|
| Number of channels | 32 digital input channels |
| Input type | Sourcing |
| Digital logic levels | |
| OFF state | |
| Input voltage | $\geq (V_{sup} - 5V)$ |
| Input current | $\leq 150 \mu A$ from DI pin |
| ON state | |
| Input voltage | $\leq (V_{sup} - 10V)$ |
| Input current | $\geq 330 \mu A$ from DI pin |
| Hysteresis | |
| Input voltage | 1.9V minimum |
| Input current | 65 μA minimum |
| Input impedance | 30 k Ω \pm 5% |
| I/O protection(V _{sup} -to-channel) | |
| Input voltage | 30V maximum |
| Reverse-biased voltage | -30V maximum |
| Update/transfer time | 7 us maximum |