

	Package	SMD	Operating Temperature Range ³	Dimensions in inches ⁴ (mm)
1	 QFP-44	Y	I, T	0.52 x 0.52 x 0.106 (13.2 x 13.2 x 2.7)
2	 QFN-40	Y	I, T	0.236 x 0.236 x 0.035 (6.0 x 6.0 x 0.9)
3	 QFP-32	Y	I, T	0.354 x 0.354 x 0.047 (9.0 x 9.0 x 1.2)
4	 QFN-32	Y	I, T	0.197 x 0.197 x 0.039 (5.0 x 5.0 x 1.0)
5	 QFN-44	Y	I, T	0.276 x 0.276 x 0.039 (7.0 x 7.0 x 1.0)
6	 QFP-100	Y	I, T	0.63 x 0.63 x 0.063 (16.0 x 16.0 x 1.6)
7	 SOIC-16 (Narrow Body)	Y	I, T	0.390 x 0.236 x 0.056 (9.9 x 6.0 x 1.425)
8	 TSSOP-20	Y	I, T	0.256 x 0.252 x 0.040 (6.5 x 6.4 x 1.025)

Notes:

- 1) 20MHz max.
- 2) Contact your local sales representative for RoHS compliant (leadfree) options. All products are REACH compliant.
- 3) I: -40°C to +85°C. T: -55°C to +125°C.
- 4) Dimensions refer to approximate footprint and height when mounted (L x W x H). Guideline only. Datasheet dimensions should be used for design purposes.



23351 Madero, Mission Viejo, California 92691-2730 USA
 Tel: (949) 859-8800 Fax: (949) 859-9643
 E-mail: sales@holtic.com Web: www.holtic.com



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DISCRETE TO DIGITAL ICS

Part Number	Drop-in Capability	Logic Supply	Channels	Internal Threshold (GND / Open)	Internal Threshold (V+ / Open)	Programmable Threshold	Internal Lightning Protection	Low-side Drivers	High-side Drivers	Driver Fault Detect	Interface	Built-In Test	Packages	
Galvanic Isolation														
HI-8400		3.3 - 5.0V	4	4.5V / 10.5V	6.0V / 12.0V		Yes				SPI or Parallel	No	1	
Programmable Thresholds & Output Drivers														
HI-8425		3.3 - 5.0V	8 (1 x 8)	1V / 3.75V	11.0V / 15.5V	2.5V - 22.5V		4 x 200mA	4 x 200mA	Each Driver	Parallel	No	1, 2	
HI-8430														
HI-8426								4 x 200mA	ORed pin					
HI-8431								4 x 200mA						
Programmable Thresholds with Serial Peripheral Interface (SPI)¹														
HI-8429		3.3V	8			2.0V / 22.0V	Yes				SPI	Yes	8	
HI-8435			32 (4 x 8)			1.5V - 23.0V					SPI	Yes	1, 5	
HI-8436						0.2V - 6.2V								
HI-8437														
Discrete-to-Digital sensor with ARINC 429 Transmitter														
HI-8470		3.3V	16 (16 x 1)	1.0V / 2.7V	11.0V / 15.5V	2.5V - 22.5V	Yes				ARINC 429	Yes	6	
Internal Thresholds														
HI-8428	DEI1282	3.3V	8	4.5V / 10.5V	6.0V / 12.0V		Yes				SPI	Yes	7	
HI-84200	HI-8420 DEI1026	5.0V	6	3.0V / 3.5V							Parallel	No		7
HI-84230	HI-8423		8											8
HI-84201	DEI1026A		6	3.0V / 4.0V										7
HI-84231			8											8
HI-84210	HI-8421 DEI1054		6	10.0V / 14.0V										7
HI-84240	HI-8424		8											8
HI-84220	HI-8422		16 (2 x 8)		3.0V / 3.5V									3

GND/Open sensing: A **Ground** is detected if the input voltage is less than the low voltage threshold.
An **Open** is detected if the input voltage is greater than the high voltage threshold.

V+/Open A **V+** is detected if the input voltage is greater than the high voltage threshold.
(28V/Open) sensing: An **Open** is detected if the input voltage is less than the low voltage threshold.