

Device Engineering Inc. Standard Product Selection Matrix - Page 1

Device Engineering is pleased to provide you with this product line selection chart with most available options. Please visit our website at <http://www.deiaz.com> to download data sheets and view our entire line of avionics products.

Device Engineering Part Number	Package Type	Temp Range (2)	429 Tx Channels	422 Mode	Tristate	Output Resistance						Fused Outputs +/- 15V Analog & 5V Logic Supply	Burn-in	Comments/Notes
						0 Ω	7.5 Ω	5 Ω	10 Ω	13 Ω	27.5 Ω	37.5 Ω		
BD429	16L CERPDP	M	1	X								X	X	X-Ref to : HI-3182; DD-03182DC
BD429-G	16L CERPDP	M	1	X								X	X	
BD429A-G	16L SOIC WB	E	1	X								X	X	
BD429A1-G	16L SOIC WB	E	1	X								X	X	
BD429B	28L PLCC	E	1	X								X	X	
BD429B-G	28L PLCC	E	1	X								X	X	
DEI0429-WMB	16L CSOP	M	1	X								X	X	X-Ref to: HI-3185
DEI0429-WMS	16L CSOP	M	1	X								X	X	
DEI1022-G	14L SOIC NB	E	1									X	X	
DEI1023-G	14L SOIC NB	E	1									X	X	
DEI1024-G	14L SOIC NB	E	1		X								X	
DEI1025-G	14L SOIC NB	E	1		X							X	X	
DEI1032-G	16L SOIC NB	E	1	X	X								X	X-Ref to: HI-8383J
DEI1038/DEI1038-G (3)	28L PLCC	E	1	X						X			X	
DEI1070A-SES-G (6)	8L EP SOIC	E	1									X	9	
DEI1071A-SES-G (6)	8L EP SOIC	E	1						X				9	
DEI1072A-SES-G (6)	8L EP SOIC	E	1		X								9	
DEI1073A-SES-G (6)	8L EP SOIC	E	1	X								X	9	X-Ref to: HI-8585/8586
DEI1074A-SES-G (6)	8L EP SOIC	E	1	X					X				9	
DEI1075A-SES-G (6)	8L EP SOIC	E	1	X	X								9	
DEI1170A-MES-G (7)	20L MLPQ	E	1	X	X				X			X	9	
DEI1171A-MES-G (7)	20L MLPQ	E	1	X	X				X			X	9	
DEI3182A-CMS	16L CERPDP	M	1		X							X	X	X-Ref: HI-3189CD/CR & Fairchild/RTX: RM3182A
DEI3182A-CMB	16L CERPDP	M	1		X							X	X	
DEI3182A-DMS	16L SB CDIP	M	1		X							X	X	
DEI1270A-MES-G (7)	38L MLPQ	E	2	X	X				X			X	9	
DEI1271A-MES-G (7)	38L MLPQ	E	2	X	X				X			X	9	
DEI5070-SES-G	8L EP SOIC	E	1									X	10	Isolated Tab; X-Ref: HI-8570/HI-8593
DEI5070-SMS-G	8L EP SOIC	M	1									X	10	
DEI5071-SES-G	8L EP SOIC	E	1									X	10	
DEI5071-SMS-G	8L EP SOIC	M	1									X	10	
DEI5072-SES-G	8L EP SOIC	E	1			X							10	
DEI5072-SMS-G	8L EP SOIC	M	1			X							10	
DEI5090-SES-G	16L EP SOIC	E	1				X					X	11	X-Ref: HI-8596
DEI5090-SMS-G	16L EP SOIC	M	1				X					X	11	
DEI5090-MES-G	16L MLPQ	E	1				X					X	11	
DEI5090-MMS-G	16L MLPQ	M	1				X					X	11	
DEI5270-MES-G	38L C MLPQ	E	2			X						X	11	
DEI5270-MMS-G	38L C MLPQ	M	2			X						X	11	

Device Engineering Part Number	Package Type	Temp Range (3)	Channels	Lightning Protect	Single PSU	Burn-in	Comments/Notes
DEI1016	40L SB DIP	M	3*		5V	X	X-Ref: HI-3282
DEI1016A-G	44L PQFP G	E	3*		5V		Au leads
DEI1016B-G	44L PLCC G	E	3*		5V		Au leads
DEI1016-EES	44L CLCC	E	3*		5V		
DEI1016-EMB	44L CLCC	M	3*		5V		
DEI1016-EMS	44L CLCC	M	3*		5V		
DEI1016-PMS-G	44L PLCC G	M	3*		5V		Au leads
DEI1016-QMS-G	44L PQFP G	M	3*		5V		Au leads
DEI1116-QES	44L PQFP	E	3*		3.3V		X-Ref: HI-3282/8282A
DEI1116-QMS	44L PQFP	M	3*		3.3V		X-Ref: HI-3282/8282A
DEI1116-PES	44L PLCC	E	3*		3.3V		X-Ref: HI-3282/8282A
DEI1116-PMS	44L PLCC	M	3*		3.3V		X-Ref: HI-3282/8282A
DEI1117-QES	44L PQFP	E	3*		3.3V		X-Ref: HI-3282/8282A
DEI1117-QMS	44L PQFP	M	3*		3.3V		X-Ref: HI-3282/8282A
DEI1117-PES	44L PLCC	E	3*		3.3V		X-Ref: HI-3282/8282A
DEI1117-PMS	44L PLCC	M	3*		3.3V		X-Ref: HI-3282/8282A
DEI1084-QES-G	52L MQFP	E	3*		3.3V		X-Ref: HI-3584/8584
DEI1084-QMS-G	52L MQFP	M	3*		3.3V		X-Ref: HI-3584/8584
DEI1084-MES-G	64L MLPQ	E	3*		3.3V		X-Ref: HI-3584/8584
DEI1084-UMS	52L CQFJ	M	3*		3.3V		X-Ref: HI-3584/8584
DEI1085-QES-G	52L MQFP	E	3*		3.3V		X-Ref: HI-8584-10
DEI1085-QMS-G	52L MQFP	M	3*		3.3V		X-Ref: HI-8584-10
DEI1085-MES-G	64L MLPQ	E	3*		3.3V		X-Ref: HI-8584-10
DEI1085-UMS	52L CQFJ	M	3*		3.3V		X-Ref: HI-8584-10
DEI2084-MES-G	64L MLPQ	E	3*		3.3V		X-Ref: HI-3584/8584
DEI2084-MMS-G	64L MLPQ	M	3*		3.3V		X-Ref: HI-3584/8584
DEI2085-MES-G	64L MLPQ	E	3*		3.3V		X-Ref: HI-3584/8584
DEI2085-MMS-G	64L MLPQ	M	3*		3.3V		X-Ref: HI-3584/8584
DEI3093-QES-G	44L PQFP	E	3*		3.3V		X-Ref: HI-3593
DEI3093-QMS-G (1)	44L PQFP	M	3*		3.3V		X-Ref: HI-3593
DEI3093-MES-G	44L MLPQ	E	3*		3.3V		X-Ref: HI-3593
DEI3093-MMS-G (1)	44L MLPQ	M	3*		3.3V		X-Ref: HI-3593

Notes:

- (1) - Contact factory for price and availability.
- (2) - I: -40C to +85C; E: -55C to +85C; K: -55C to +105C; M: -55C to +125C; A: -40C to +125C
- (3) "*" device suffix indicates Pb-Free/RoHS compliant device lead finish
- (4) - EOL - Soon to be discontinued. Stock still available
- (5) - OBS - Discontinued no stock available
- (6) - Also available in -SMS-G and -SMB-G versions
- (7) - Also available in -MMS-G version
- (8) - Check w/Sales for Errata sheet
- (9) - Device Vsupplies: +/-15V Nominal; No Logic Supply needed
- (10) - Device Vsupplies: +/-5V Nominal; No Logic Supply needed
- (11) - Device Vsupplies: Runs off Single +3.3V Supply
- (*) - Industry Std ARINC 429 Transceiver w/2 Receive & 1 Transmit Channel

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Device Engineering Part Number	Package Type	Temp Range (3)	Channels	Ext 40K Ω	Lightning Protect	Single PSU	Burn-in	Comments/Notes
DEI1041-SES-G	8L SOIC	E	1	✓	✓	3.3V		Single Line w/Test; X-Ref: HI-8450
DEI1041-SMS-G	8L SOIC	M	1	✓	✓	3.3V		Single Line w/Test; X-Ref: HI-8450
DEI1041-SMB-G	8L SOIC	M	1	✓	✓	3.3V	X	Single Line w/Test; X-Ref: HI-8450
DEI3283A-CMB	20L CERP	M	2				X	
DEI3283A-CMB-G	20L CERP	M	2				X	
DEI3283A-CMS	20L CERP	M	2					
DEI3283A-CMS-G	20L CERP	M	2					
DEI3283A-EMB	20L CLCC	M	2				X	
DEI3283A-EMS	20L CLCC	M	2					
DEI3283A-SAS-G	20L SOIC	A	2					
DEI3283A-SAB-G	20L SOIC	A	2				X	
DEI3283A-SES-G	20L SOIC	E	2					
DEI3283A-SMS-G	20L SOIC	M	2					
DEI3283 non-A (4,7)	All versions		2					Use "A" version for new designs
DEI1044A-TES-G	20L TSSOP	E	4	✓	✓	3.3V		
DEI1044A-TES-G-T4*	20L TSSOP	E	4	✓	✓	3.3V		
DEI1044A-TMS-G	20L TSSOP	M	4	✓	✓	3.3V		
DEI1045A-TES-G	20L TSSOP	E	4	✓	✓	3.3V		
DEI1045A-TMS-G	20L TSSOP	M	4	✓	✓	3.3V		
DEI1046A-TES-G	38L TSSOP	E	8	✓	✓	3.3V		
DEI1046A-TMS-G	38L TSSOP	M	8	✓	✓	3.3V		
DEI1049-TES-G	38L TSSOP	E	8	X	✓	3.3V		
DEI1049-TMS-G	38L TSSOP	M	8	X	✓	3.3V		
DEI1148-QES-G	44L MQFP	E	8	✓	✓	3.3V		
DEI1148-QMS-G	44L MQFP	M	8	✓	✓	3.3V		

Notes:

- (1) - Contact factory for price and availability.
- (2) - I: -40C to +85C; E: -55C to +85C; K: -55C to +105C; M: -55C to +125C; A: -40C to +125C
- (3) - Most parts are only available RoHS compliant (with -G suffix)
- (4) - EOL - Soon to be discontinued. Stock still available
- (5) - OBS - Discontinued no stock available
- (6) - Also available in -WMS version
- (7) - Not recommended for new designs
- (8) - Check w/Sales for Errata sheet
- (9) - Wire bond across JFET-Source/Gate for enhanced handling protection
- (*) - Provides higher (+/-660V) WF3 protection, vs (+/-640V) for non-T4 version

Device Engineering Part Number	Package Type	Temp Range (3)	Channels	Lightning Protect	Single PSU	Burn-in	Comments/Notes
DEI1026A-SES-G	16L SOIC NB	E	6	✓	5V		GND/Open
DEI1026A-SMS-G	16L SOIC NB	M	6	✓	5V		GND/Open
DEI1026A-WMS	16L CSOP	M	6	✓	5V		GND/Open
DEI1026A-WMB	16L CSOP	M	6	✓	5V	X	GND/Open
DEI1026-G	16L SOIC NB	E	6	✓	5V		GND/Open; X-Ref to: HI-8420, DD03206VP-900
DEI1026-WMB (6)	16L CSOP	M	6	✓	5V	X	GND/Open; X-Ref to: HI-8420, DD03206VP-900
DEI1054-G	16L SOIC NB	E	6	✓	5V		28V/Open; X-Ref to: HI-8421
DEI1054-SMS-G	16L SOIC NB	M	6	✓	5V		28V/Open; X-Ref to: HI-8421
DEI1054-WMB (6)	16L CSOP	M	6	✓	5V	X	28V/Open; X-Ref to: HI-8421
DEI1066-SES-G	16L SOIC NB	E	8	✓			GND/Open with SPI Output, Vdd: 5-18Volts, Vcc: 3.3 or 5Volts
DEI1066-SMS-G	16L SOIC NB	M	8	✓			
DEI1066-SMB-G (1)	16L SOIC NB	M	8	✓		X	
DEI1067-SES-G	16L SOIC NB	E	8	✓			ARINC735A Open/ GND, SPI, Vdd: 15V, Vcc: 3.3 or 5V
DEI1160A-SES	16L EP SOIC	E	8	✓			Prog GND/Open, 28v/Open, 28v/GND; Vdd: 15V, Vcc: 3.3 or 5V, replaces DEI1160 non-A
DEI1160A-SMS	16L EP SOIC	M	8	✓			
DEI1166-TES-G	24L TSSOP	E	8	✓			GND/Open, w/ Parallel O/P, Vdd: 5-18V, Vcc: 3.3 or 5V
DEI1166-TMS-G	24L TSSOP	M	8	✓			
DEI1167-TES-G	24L TSSOP	E	8	✓			GND/Open, w/ Parallel O/P, Vdd: 12V, Vcc: 3.3 or 5V
DEI1167-TMS-G	24L TSSOP	M	8	✓			
DEI1184-SES	16L EP SOIC	E	8	✓			Prog GND/Open, 28v/Open, 28v/GND, Meets ABD0100H, Vdd: 15V, Vcc: 3.3V
DEI1184-SMS	16L EP SOIC	M	8	✓			
DEI1188-SES	16L EP SOIC	E	8	✓			GND/Open, Ser O/P, Meets ABD0100H, Vdd: 12-16.5V, Vcc: 3.3V, Pin compatible to: DEI1066
DEI1188-SMS	16L EP SOIC	M	8	✓			GND/Open, w/Parallel O/P, Meets ABD0100H, Vdd: 12-16.5V, Vcc: 3.3V, Pin compatible to: DEI1166/67
DEI1198-TES-G	24L TSSOP	E	8	✓			
DEI1198-TMS-G	24L EP TSSOP	M	8	✓			
DEI1282-SES	16L EP SOIC	E	8	✓			Prog GND/Open, 28v/Open, Meets ABD0100H, Vdd: 12-16.5V, Vcc: 3.3V, X-Ref to: HI-8428
DEI1282-SMS	16L EP SOIC	M	8	✓			
DEI1282-SES-G	16L EP SOIC	E	8	✓			
DEI1282-SMS-G	16L EP SOIC	M	8	✓			
DEI1284-SES-G	16L EP SOIC	E	8	✓			Prog GND/Open, 28v/Open, Meets ABD0100H, L4 & 5, Vdd: 12-16.5V, Vcc: 3.3V, X-Ref to: HI-8428-R
DEI1284-SMS-G	16L EP SOIC	M	8	✓			
DEI1028-SES-G	8L SOIC NB	E	1	✓			Transient Voltage Clamp for 28V bus
DEI1028-SKS-G (1)	8L SOIC NB	K	1	✓			Protects 28V bus per DO160, Sect-16, Category-Z
DEI1030-G	8L SOIC NB	E	1	✓	12V		Lighting bus-mapping circuit, Vdd: 10.8 to 13.2V
DEI1090-SES-G	16L SOIC WB	E	8	✓			Square Law LED Dimmer, Vdd: 4.5 to 16.5V
DEI1604-MES-G	12L DFN	E	1	✓			Surge Blocking MCM: Bi-directional, dual-SIC FET, Lightning surge protector with on-board fuse
DEI1606-MMS-G (1)	8L DFN	M	1	✓			Surge Blocking MCM: Bi-directional, dual SIC FET, Lightning surge protector (fuse-less)
DEI1565/66-SIS-G	20L SOIC EP WB	I	2		5V		
DEI1565/66-SMS-G	20L SOIC EP WB	M	2		5V		
DEI1565/66-MIS-G (1)	44L QFN 7x7 EP	I	2		5V		
DEI1565/66-MMS-G (1)	44L QFN 7x7 EP	M	2		5V		
DEI1573A/74A Coming Q4 '26	see: DEI1565/66	M,I	2		3.3V		Sampling: by Q3-2026, X-Ref to: HI-1573/74
DEI1579A/81A Coming Q4 '26	see: DEI1565/66	M,I	2		3.3V		Sampling: by Q3-2026, X-Ref to: HI-1579/81