

IC PACKAGES⁴

	Package	Material	SMD	Operating Temperature Range ⁵	Dimensions in inches ⁶ (mm)
13	 PDIP-8	Plastic	N	I, T, M	0.385 x 0.300 x 0.160 (9.799 x 7.620 x 4.064)
14	 CERDIP-8	Ceramic	N	I, T, M	0.380 x 0.314 x 0.2 (9.652 x 7.976 x 5.08)
15	 ESOIC-14 (Narrow Body)	Plastic	Y	I, T, M	0.341 x 0.236 x 0.055 (8.65 x 6.0 x 1.397)
16	 QFN-24	Plastic	Y	I, T	0.197 x 0.197 x 0.038 (5.0 x 5.0 x 0.96)
17	 SOIC-16 (Narrow Body)	Plastic	Y	I, T, M	0.390 x 0.236 x 0.061 (9.9 x 5.99 x 1.55)
18	 QFN-16	Plastic	Y	I, T, M	0.1575 x 0.1575 x 0.039 (4.0 x 4.0 x 1.0)
19	 TSSOP-20	Plastic	Y	I, T, M	0.2555 x 0.252 x 0.040 (6.5 x 6.4 x 1.025)
20	 TSSOP-38	Plastic	Y	I, T, M	0.382 x 0.252 x 0.04 (9.70 x 6.40 x 1.025)
21	 SOIC-8	Plastic	Y	I, T, M	0.194 x 0.236 x 0.061 (4.92 x 5.99 x 1.549)
22	 QFP-64	Plastic	Y	I, T, M	0.473 x 0.473 x 0.063 (12.0 x 12.0 x 1.6)

Notes:

- 1) “-10”, “-15” or “-40” designates the use of external resistors for lightning protection of ARINC inputs. See datasheet and AN-300 & AN-301 for details of lightning protection on ARINC inputs and outputs.
- 2) Test Mode functions are part specific. See datasheet for details.
- 3) See IC Packages.
- 4) Contact your local sales representative for RoHS compliant (lead free) options.
- 5) I: -40°C to +85°C. T: -55°C to +125°C w/o burn in. M: -55°C to +125°C with burn in.
- 6) Dimensions refer to approximate footprint and height when mounted, “L x W x H”. Guideline only. Data sheet dimensions should be used for design purposes.

SALES REPRESENTATIVES AND DISTRIBUTORS*

USA

ARROW ELECTRONICS

Phone: (800) 777-2776
Web: www.arrow.com

FALCON ELECTRONICS

Phone: (800) 444-4744, ext. 1
E-Mail: sales@falconelec.com
Web: www.falconelec.com

MATRIX DESIGN TECHNOLOGY

Phone: (952) 400-1070
E-Mail: info@matrix-dt.com
Web: www.matrix-dt.com

MIDDLE EAST

ISRAEL

GITRONICS Ltd.

Phone: +972-3-9274738
E-mail: jan@gitronics.co.il
Web: www.gitronics.co.il

AFRICA

SOUTH AFRICA

EAGLE TECHNOLOGY SOUTH AFRICA

Phone: +27 (21) 423-4943
E-Mail: eagle@eagle.co.za
Web: www.eagle.co.za

ASIC DESIGN SERVICES

Phone: +27 (0)11 315 8316
E-mail: tony.dalmaso@asic.co.za
Web: www.asic.co.za

EUROPE

BELGIUM

TELEREX N.V.

Phone: +32 (0)3 326 40 00
E-Mail: info@telereurope.com
Web: www.telereurope.com

FRANCE

ISOTOPE ELECTRONICS

Phone: +33 1 69 86 97 97
E-Mail: rabdola@isotope-electronics.com
Web: www.isotope-electronics.com

GERMANY, AUSTRIA, SWITZERLAND

EUROCOMP ELEKTRONIK GmbH

Phone: +49 6032 9308-0
E-Mail: sales@eurocomp.de
Web: www.eurocomp.de

ITALY

META s.r.l.

Phone: +39 02 26 95 24 19
E-Mail: info@meta-srl.com
Web: www.meta-srl.com

NETHERLANDS

TELEREX NEDERLAND B.V.

Phone: +31 (0) 76 578 20 00
E-Mail: info@telereurope.com
Web: www.telereurope.com

PORTUGAL

ANATRONIC S.A.

Phone: +351 21 937 62 67
E-Mail: info@anatronicon.com
Web: www.anatronicon.com

RUSSIA

ELECTROMIR

Phone: +7 (495) 788-07-04
E-Mail: msk@electromir.com
Web: www.electromir.com

SPAIN

ANATRONIC S.A.

Phone: +34 91 366 01 59
E-Mail: info@anatronicon.com
Web: www.anatronicon.com

TURKEY

EMPA ELEKTRONIK SAN. ve TIC. A.S.

Phone: +90 (212) 465 71 99
E-mail: holt@empa.com
Web: www.empa.com

UNITED KINGDOM

ADVANCED POWER COMPONENTS plc

Phone: +44 1634 290588
E-Mail: sales@apc-plc.co.uk
Web: www.apc-plc.co.uk

ASIA-PACIFIC

CHINA

WALASEY LIMITED

Phone: +852 2357 1676
E-Mail: info@walasey.com.hk
Web: www.walasey.com

INDIA

BRYKA ELECTROSYSTEMS

and SOFTWARE Pvt. Ltd.

Phone: +91-22-2207-4891/4892
E-Mail: sales@bryka.net
Web: www.bryka.net

JAPAN

NACELLE CO. LTD.

Phone: +81 3-5921-5099
E-Mail: sales@nacelle.co.jp
Web: www.nacelle.co.jp

TRANS PACIFIC TECHNOLOGIES, INC.

Phone: +81 3-5800-2880
E-Mail: sales.t@tptech.co.jp
Web: www.tptech.co.jp/

SOUTH KOREA

INTERCOM ELECTRONICS, INC.

Phone: +82 31-8007-6553
E-Mail: sales@1553.co.kr
Web: www.1553.co.kr

* See Web site for complete list of regional offices.

HOLT
INC.
INTEGRATED CIRCUITS

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



You can download a FREE
QR Code Reader
for your Smartphone at
www.mobile-barcode.com

ARINC 429 PRODUCT SELECTOR GUIDE 2012



ARINC 429 ICs

Part Number ¹	Tx/Rx Channels	Tx FIFO (Words)	Rx FIFO (Words)	Label Filter Depth	Host Interface	Data Sheet	Integrated Line Driver	Integrated Line Receiver(s)	Test Mode ²	Tri State Output	Supply Voltages		Packages ^{3, 4}
											Digital	Line Driver	
SPI Interface Protocol ICs													
HI-3593	1/2	32	32	256	SPI Serial	HI-3593	1	2	Y	N	3.3V	3.3V	1, 2
HI-3210	4/8	32K Bytes RAM		256	SPI Serial	HI-3210	-	-	Y	N	3.3V	-	3, 22
HI-3585	1/1	32	32	256	SPI Serial	HI-3585	1	1	Y	N	3.3V or 5V	± 5V	1, 2
HI-3587	1/0	32	-	-	SPI Serial	HI-3587	1	-	N	N	3.3V or 5V	± 5V	1, 2
HI-3588	0/1	-	32	256	SPI Serial	HI-3588	-	1	N	N	3.3V or 5V	-	1, 2
HI-3596-40	1/8	-	4	16	SPI Serial	HI-3598	-	8	Y	N	3.3V or 5V	-	2
HI-3597-40	1/7	-	4	16	SPI Serial	HI-3598	-	7	Y	N	3.3V or 5V	-	5
HI-3598	1/8	-	4	16	SPI Serial	HI-3598	-	8	Y	N	3.3V or 5V	-	3, 4
HI-3599-40	0/8	-	4	16	SPI Serial	HI-3598	-	8	Y	N	3.3V or 5V	-	2, 5
Parallel Interface Protocol ICs													
HI-8785	1/0	-	-	-	8-bit Parallel	HI-8783	1	-	N	N	5V	± 10V	5
HI-8788	1/0	-	-	-	16-bit Parallel	HI-8787	1	-	N	N	5V	± 10V	7
HI-8684-10	0/1	-	-	-	8-bit Parallel	HI-8683	-	1	Y	N	5V	-	6, 8
HI-8686	0/1	-	-	-	16-bit Parallel	HI-8685	-	1	Y	N	5V	-	7
HI-3583A-15	1/2	32	32	16	16-bit Parallel	HI-3582A	1	2	Y	N	3.3V	± 10V	3, 4, 11
HI-3584A-15	1/2	32	32	16	16-bit Parallel	HI-3584A	-	2	Y	N	3.3V	-	3, 4, 11
HI-8583-10	1/2	32	32	16	16-bit Parallel	HI-8582	1	2	Y	N	5V	± 10V	4, 11
HI-8584-10	1/2	32	32	16	16-bit Parallel	HI-8584	-	2	Y	N	5V	-	4, 11
Line Drivers													
HI-8571	1/0	-	-	-	-	HI-8570	1	-	N	N	-	± 5V	12, 13, 14
HI-8586	1/0	-	-	-	-	HI-8585	1	-	N	N	-	± 12V or ± 15V	12, 13, 14
HI-8594	1/0	-	-	-	-	HI-8592	1	-	N	Y	-	± 5V	12, 14
HI-8592	1/0	-	-	-	-	HI-8592	1	-	N	Y	-	+ 5V	15, 16
HI-8596	1/0	-	-	-	-	HI-8596	1	-	N	Y	-	+ 3.3V	17, 18
Line Receivers													
HI-8444-10	0/4	-	-	-	-	HI-8444	-	4	Y	N	3.3V or 5V	-	19
HI-8445-10									N				
HI-8448-10	0/8	-	-	-	-	HI-8444	-	8	Y	N	3.3V or 5V	-	1, 2, 20
HI-8588-10	0/1	-	-	-	-	HI-8588	-	1	Y	N	5V	-	13, 14, 21
HI-8591-40	0/1	-	-	-	-	HI-8591	-	1	Y	N	3.3V or 5V	-	13, 14, 18, 21

IC PACKAGES⁴

	Package	Material	SMD	Operating Temperature Range ⁵	Dimensions in inches ⁶ (mm)
1 	QFP-44	Plastic	Y	I, T, M	0.547 x 0.547 x 0.063 (13.9 x 13.9 x 1.6)
2 	QFN-44	Plastic	Y	I, T, M	0.276 x 0.276 x 0.039 (7.0 x 7.0 x 1.0)
3 	QFN-64	Plastic	Y	I, T, M	0.354 x 0.354 x 0.039 (9.0 x 9.0 x 1.0)
4 	QFP-52	Plastic	Y	I, T, M	0.52 x 0.52 x 0.063 (13.2 x 13.2 x 1.6)
5 	SOIC-24 (Wide Body)	Plastic	Y	I, T, M	0.606 x 0.407 x 0.10 (15.392 x 10.325 x 2.54)
6 	SOIC-20 (Wide Body)	Plastic	Y	I, T, M	0.5035 x 0.4065 x 0.098 (12.789 x 10.325 x 2.489)
7 	QFP-32	Plastic	Y	I, T, M	0.354 x 0.354 x 0.044 (9.0 x 9.0 x 1.2)
8 	PLCC-20	Plastic	Y	I, T, M	0.39 x 0.39 x 0.173 (9.906 x 9.906 x 4.394)
9 	PLCC-44	Plastic	Y	I, T, M	0.69 x 0.69 x 0.173 (17.526 x 17.526 x 4.394)
10 	CerQuad-44 (J-Lead)	Ceramic	Y	I, T, M	0.688 x 0.688 x 0.2 (17.475 x 17.475 x 5.08)
11 	CerQuad-52 (J-Lead)	Ceramic	Y	I, T, M	0.788 x 0.788 x 0.19 (20.0 x 20.0 x 4.826)
12 	ESQIC-8	Plastic	Y	I, T, M	0.194 x 0.236 x 0.057 (4.92 x 5.99 x 1.46)