

Product Line Card

Comprehensive portfolio of mixed-signal ICs for innovative applications

As a specialist for mixed-signal integrated circuits and system-on-chip solutions, iC-Haus has been designing and manufacturing application-specific standard products (ASSPs) and custom ASICs for more than 30 years.

We supply industrial, medical, and automotive applications with innovative, reliable, and FMEA-approved integrated circuits and microsystems.



More information: www.ichaus.com

I/O iCs		
I/O Circuits for industrial sens	ors, control panels, PLC	Package
iC-GD	Universal IO-Interface	QFN38-5×7
iC-GF	IO-Link Transceiver for IO-Link Slaves	QFN24-4×4
iC-GFP	IO-Link Slave Transceiver	QFN24-4×4
iC-JRX	2x4 Bidirectional 24V High-Side Driver with μC Interface	PLCC44
iC-JX	4x4 Bidirectional 24V High-Side Driver with Load Diagnosis and μ C Interface	MQFP52
iC-MD	48-Bit Quadrature Counter with RS422 Receiver and SPI and BiSS Interface	TSSOP20
iC-VRV	2x4 24V Low-Side Driver with I/O Function and μ C Interface	PLCC44
Interface iCs ·	BiSS® rrement, motor feedback and drive systems, safety relevant systems, multiple sensor systems	Package
iC-MB3	BiSS Interface Master (1 channel/3 slaves)	TSSOP24
iC-MB4	BiSS Interface Master (2 channel/8 slaves, RS422 transceiver, dual SPI)	TSSOP24, QFN28-5×5
iC-MCB	SPI-to-BiSS Slave Bridge with RS-422 Transceiver	QFN16-3×3
Power Mana	gement iCs	
Power Manage for industrial sens	ment iCs ors, rotary and linear encoders	Package
iC-DC	Programmable Dual 2.5/3.3/5V Buck/Boost SMPS	QFN24-4×4
iC-JJ	Power Management IC with Autarky Function	MQFP44
iC-WD	Switched-Mode Dual 5V Regulator for 8V to 36V	SO8, SO8-TP, (DFN10-4×4)
iC-WDA	Switched-Mode Dual 3.3V Regulator for 8V to 36V	DFN10-4×4
iC-WDB	Switched-Mode 3.3V (200 mA) and 5V Regulators for 8V to 36V	DFN10-4×4
iC-WDC	Switched-Mode 3.3V and 5V (200 mA) Regulators for 8V to 36V	DFN10-4×4
Sensor iCs		
Optical for photoelectric s	ensors, identification systems, scanners, spectroscopy, machine vision systems	Package
iC-LA	64×1 Linear Image Sensor with Bidir. Shift and Extendable Data I/O (12.8 mm, 127 dpi)	bare die, COB
iC-LFH Series	1024/960/640/320×1 High Resolution CMOS Linear Image Sensors (2000 dpi)	optoBGA LFHxC
iC-LF1401	128×1 Linear Image Sensor with Electronic Shutter Function (8.1 mm, 400 dpi)	optoLGA LF2C, optoBGA LF3
iC-LFL1402	256×1 Gap-Free Linear Image Sensor with Electronic Shutter Function (16.2 mm, 400 dpi)	optoBGA LFL1C
iC-LFM	64×1 Linear Image Sensor with Electronic Shutter Function (4 mm, 400 dpi)	optoBGA LFM1C
iC-LFS	32×1 Linear Image Sensor with Electronic Shutter Function (2 mm, 400 dpi)	cDFN10-4×4
iC-LO	Smart Triangulation Sensor IC	oBGA LO1C
iC-LQNP	Pulse and AC Light Sensor with Complementary Outputs	TO18-4L/F, oBGA LQ1C, cDF
iC-OC	Dual Integrating Opto Sensor with Shift Register for Chain Connection	bare die, COB
iC-OD, iC-ODL	Optical Position-Sensitive Detector (2.6/8.4 mm PSD) with Ambient Light Suppression	oLGA OD4C/ODL2C, cDFN10-4×4
Magnetic for linear position	sensing, gear tooth sensing, length measurement	Package
· ·	Low-Power Hall Sensor	DFN8-3×3
iC-MJ		DFN10-4×4
iC-MJ iC-MZ iC-SM2L	Differential Hall Switch and Gear-Tooth Sensor with Line Driver AMR Linear Position Sensor (Pitch: 2 mm)	DFN10-4×4 LGA SM2C

Linear Function	าร	
	Package s, measurement amplifiers, receivers for 24V control systems, test equipment, and modulators, demodulators, voltage-controlled amplifiers	
iC-BM	Quad Four-Quadrant Analog Multiplier (MLT04 compatible)	SO18W
iC-HC	Dual Ultrafast ATE Signal Comparator up to 36V	TSSOP16
iC-HO	General Purpose Sensor Interface	QFN32 5×5
Safety Light Cu	urtain iCs	
Transmitters for machine safeguar	ding systems (IEC 61496-1, ESPE), measuring light curtains	Package
iC-NL	Light-Grid Pulse Driver with Modulation Input	SO8
iC-NT	Light-Grid Pulse Driver for Light Curtains	SO8, MSOP8
iC-NX	8-Channel Light-Grid Pulse Driver	TSSOP16
iC-NXL	8-Channel Light-Grid Pulse Driver with Modulation Input	TSSOP16
Receivers for machine safeauar	ding systems (IEC 61496-1, ESPE), measuring light curtains	Package
iC-LK	Light-Grid Pulse Receiver with Integrated Photodiode	cQFN16-4×4
iC-ME		DFN10-4×4
iC-ME	2-Channel Light-Grid Pulse Receiver	SO8, MSOP8
iC-NK	Light-Grid Pulse Receiver for Light Curtains Light-Grid Pulse Receiver	SO8
Encoder iCs · S	Silicon for Motion®	
Optical Encoder i		
for motion control, di	Cs ive systems, robotics, optical encoders (incremental, singleturn, multiturn)	Package
for motion control, di	ive systems, robotics, optical encoders (incremental, singleturn, multiturn)	
	ive systems, robotics, optical encoders (incremental, singleturn, multiturn) 21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output	BLCC LG5C, oBGA LG21C, COB
iC-LGC iC-LNB	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5
iC-LGC iC-LNB	21-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5
iC-LGC iC-LNB iC-LNG iC-LSB	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C
iC-LGC iC-LNB iC-LNG iC-LSB	21-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI)	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 blcc LV4C, COB
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI)	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 BLCC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 BLCC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control 5-Channel Phased Array Sine Encoder (Ø 39 mm, 2048 PPR)	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 BLCC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, o
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG iC-PD3948 iC-PG iC-PN, iC-PNH Series	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control 5-Channel Phased Array Sine Encoder (Ø 39 mm, 2048 PPR) Miniature Reflective Optical Absolute Encoder	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 BLCC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, o
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG iC-PD3948 iC-PG iC-PNH3348	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control 5-Channel Phased Array Sine Encoder (Ø 39 mm, 2048 PPR) Miniature Reflective Optical Absolute Encoder Phased Array Nonius Encoder IC Series (Ø 26, Ø 33, Ø 39 mm)	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 BLCC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, o
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG iC-PD3948 iC-PG iC-PN, iC-PNH Series iC-PNH3348 iC-PR Series	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control 5-Channel Phased Array Sine Encoder (Ø 39 mm, 2048 PPR) Miniature Reflective Optical Absolute Encoder Phased Array Nonius Encoder IC Series (Ø 26, Ø 33, Ø 39 mm) EncoderBlue® Phased Array Nonius Encoder	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 blcC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC optoBGA LSH2C, optoQFN32-5×5 oDFN8-3×3 optoBGA LSH2C, optoQFN32-5×5 oDFN8-3×3 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoQFN32-5×5
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG iC-PD3948 iC-PG iC-PNH Series iC-PNH3348 iC-PR Series iC-PT H-Series	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control 5-Channel Phased Array Sine Encoder (Ø 39 mm, 2048 PPR) Miniature Reflective Optical Absolute Encoder Phased Array Nonius Encoder IC Series (Ø 26, Ø 33, Ø 39 mm) EncoderBlue® Phased Array Nonius Encoder EncoderBlue® 3-Ch. Reflective Optical Encoder IC Series	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 BLCC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoQFN32-5×5 optoQFN32-5×5 optoQFN32-5×5 optoQFN32-5×5
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG iC-PD3948 iC-PG iC-PNH3348 iC-PN Series iC-PR Series iC-PT Series	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control 5-Channel Phased Array Sine Encoder (Ø 39 mm, 2048 PPR) Miniature Reflective Optical Absolute Encoder Phased Array Nonius Encoder IC Series (Ø 26, Ø 33, Ø 39 mm) EncoderBlue® Phased Array Nonius Encoder EncoderBlue® 3-Ch. Reflective Optical Encoder IC Series	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 BLCC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC optoBGA LSH2C, optoQFN32-5×5 oDFN8-3×3 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoQFN32-5×5 optoQFN32-5×5 optoQFN32-5×5 optoQFN32-5×5 optoQFN32-5×5 optoQFN32-5×5
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG iC-PD3948 iC-PG	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array 12-Channel Active Photosensor Array 13-Channel Sin/Cos Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control 5-Channel Phased Array Sine Encoder (Ø 39 mm, 2048 PPR) Miniature Reflective Optical Absolute Encoder Phased Array Nonius Encoder IC Series (Ø 26, Ø 33, Ø 39 mm) EncoderBlue® 3-Ch. Reflective Optical Encoder IC Series 6-Ch. Phased Array Opto Encoder IC Series (Ø 26, Ø 33, Ø 39 mm); EncoderBlue® 6-Ch. Phased Array Opto Encoder IC Series (Ø 26, Ø 33, Ø 39 mm); EncoderBlue®	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoQFN32-5×5 optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 belcc LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC optoBGA LSH2C, optoQFN32-5×5 oDFN8-3×3 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG iC-PD3948 iC-PG iC-PN, iC-PNH Series iC-PR Series iC-PT H-Series iC-PT Series iC-PX Series	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array 12-Channel Active Photosensor Array 13-Channel Sin/Cos Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control 5-Channel Phased Array Sine Encoder (Ø 39 mm, 2048 PPR) Miniature Reflective Optical Absolute Encoder Phased Array Nonius Encoder IC Series (Ø 26, Ø 33, Ø 39 mm) EncoderBlue® 3-Ch. Reflective Optical Encoder IC Series 6-Ch. Phased Array Opto Encoder IC Series (Ø 26, Ø 33, Ø 39 mm); EncoderBlue® 6-Ch. Phased Array Opto Encoder IC Series (Ø 33 mm) EncoderBlue® 2-Ch. Reflective Optical Encoder IC Series	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoQFN32-5×5 optoBGA LS4C, optoQFN32-5×5 BLCC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC optoBGA LS4C, optoQFN32-5×5 oDFN8-3×3 optoBGA LS4C, optoQFN32-5×5 o
iC-LGC iC-LNB iC-LNG iC-LSB iC-LSC iC-LSHB iC-LSHC iC-LTA iC-LV iC-OF iC-OG iC-PD3948 iC-PG iC-PNH3348 iC-PR Series iC-PT H-Series iC-PT Series iC-PX Series	21-Bit Optical Position Encoder with Serial/Parallel and Sin/Cos Output 18-Bit Optical Position Encoder with SPI, Serial/Parallel and FlexCount® Output 16-Bit Optical Position Encoder with SPI and Serial/Parallel Output 8-Channel Active Photosensor Array 12-Channel Active Photosensor Array 12-Channel Active Photosensor Array Incremental Photosensor Array 3-Channel Sin/Cos Photosensor Array 6-Channel Incremental Opto Encoder 5-Bit Optical Encoder with Cascadable Serial Interface (SSI) 3-Bit Optical Encoder 8-Bit Differential Scanning Optical Encoder with LED Control 5-Channel Phased Array Sine Encoder (Ø39 mm, 2048 PPR) Miniature Reflective Optical Absolute Encoder Phased Array Nonius Encoder IC Series (Ø26, Ø33, Ø39 mm) EncoderBlue® 3-Ch. Reflective Optical Encoder IC Series 6-Ch. Phased Array Opto Encoder IC Series (Ø36, Ø33, Ø39 mm); EncoderBlue® 6-Ch. Phased Array Opto Encoder IC Series (Ø38 mm) EncoderBlue® 2-Ch. Reflective Optical Encoder IC Series	BLCC LG5C, oBGA LG21C, COB optoBGA LNB2C, optoQFN38-7×5 optoBGA LNB2C, optoQFN38-7×5 optoBGA LS2C optoBGA LS2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 optoBGA LSH2C, optoQFN32-5×5 BLCC LV4C, COB BLCC OF3C, optoBGA OF4C BLCC OGC optoBGA LSH2C, optoQFN32-5×5 oDFN8-3×3 optoBGA LSH2C, optoQFN32-5×5

Magnetic Encoder for linear and ang	der iCs gular encoders, position measurement systems, robotics, motion and vehicle control	Package
iC-MA	8-Bit Angular Hall Encoder, Cascadable	DFN10-4×4
iC-MA3	Angular Hall Sensor with Sin/Cos Output, Cascadable	QFN16-4×4
iC-MH, iC-MH8	12-Bit Angular Hall Encoder	QFN28-5×5
iC-MH16	12-Bit Angular Hall Encoder, FlexCount®	QFN28-5×5
iC-MHA	Angular Hall Encoder with Sin/Cos Outputs	QFN28-5×5
iC-MHL100	12-Bit Linear/Rotory Position Hall Encoder – pole width 1.00 mm	TSSOP20
iC-MHL200	12-Bit Linear/Rotory Position Hall Encoder – pole width 2.00 mm	TSSOP20
iC-MHM	14-Bit Absolute Angle Hall Encoder	QFN28-5×5
iC-ML	8-Bit Linear Position Hall Encoder, Cascadable – pole width 2.56 mm	bleibt
iC-MP	8-Bit Hall Encoder iC with Ratiometric Output	DFN10-4×4
iC-MU	Magnetic Off-Axis Absolute Position Encoder – pole width 1.28 mm	DFN16-5×5, QFN48-7×7
iC-MU150	Magnetic Off-Axis Absolute Position Encoder – pole width 1.50 mm	DFN16-5×5, QFN48-7×7
iC-MU200	Magnetic Off-Axis Absolute Position Encoder – pole width 2.00 mm	QFN48-7×7
iC-MV	8-Bit Hall Encoder with Cascadable Serial Interface	QFN16-3×3
iC-PV	Battery-Buffered Hall Multiturn Encoder	QFN16-3×3
iC-PVL	Linear/Off-Axis Battery-Buffered Hall Multiturn Encoder	QFN16-4×4
iC-TW11	10-Bit Ultra Low Power Magnetic Absolute Rotary Encoder	QFN16-4×4
Interpolators for angle sensors,	Interpolators for angle sensors, rotary encoders, linear scales, digital gauges, PLC/IPC interface boards, servo controls	
iC-MG	8-Bit Sin/Cos Interpolation iC with RS422 Driver	TSSOP20
iC-MN	3-Channel, Simultaneous Sampling 13-Bit Sin/Cos Interpolation IC with Nonius Calculation	QFN48-7×7
iC-MNF	26-Bit Nonius Encoder with 3-Ch. Sampling 14-bit Sin/D Interpolation	QFN48-7×7
iC-MQ	Programmable 9-Bit Sin/Cos Interpolation IC with Fail-Safe RS422 Driver	TSSOP20
iC-MQF, iC-PI	Programmable 12-Bit Sin/Cos Interpolation iC with RS422 Driver	TSSOP20
iC-MR3	13-Bit S&H Sin/Cos Interpolator with 2.5 V/5 V Controller Interfaces	QFN48-7×7
iC-NG	8-Bit Sine-to-Digital Converter Processor with Waveform Adaptation	SO28, SSOP28
iC-NQC	13-Bit Signal Conditioning Interpolator with BiSS C Interface	TSSOP20
iC-NQI	13-Bit Signal Conditioning Interpolator with 2-Wire Interface	TSSOP20
iC-NV, iC-NVH	6-Bit Sin/Cos Flash Converter with Pin-Selectable Interpolation to ×16 (H: half-cycle index)	TSSOP20
iC-TW2	Programmable 8-Bit Sin/Cos Interpolation IC with EEPROM	QFN24-4×4
iC-TW28	10-Bit Low Latency Sin/Cos Interpolator with Auto-Calib. and Line Driver	QFN32-5×5
iC-TW29	14-Bit Sin/Cos Interpolator with Gearbox and BiSS Interface	QFN32-5×5
iC-TW8	16-Bit Sin/Cos Interpolator with Automatic Calibration	QFN48-7×7
Signal Conditioning and Monitoring for linear encoders, incremental encoders, optical position sensors, magnetic position sensors		Package
iC-MSA	Sin/Cos Sensor Signal Conditioner with AGC and 1 Vpp Line Driver	TSSOP20-TP
iC-MSB SAFETY	Sin/Cos Sensor Signal Conditioner with Fail-Safe 1 Vpp Line Driver	TSSOP20, TSSOP20-TP
iC-MSB2	Sin/Cos Sensor Signal Conditioner/Multiplexer with Fail-Safe 1 Vpp Line Driver	TSSOP20
iC-MSC	Sin/Cos Sensor Signal Conditioner with Fail-Safe 1 Vpp Line Driver	TSSOP20-TP, QFN32-5×5
iC-PE Series	XMR Sensor Multiplexer-Amplifier	QFN16-3×3
iC-RC1000	Sin/Cos Signal Safety Monitor IC	MSOP10-3×3
iC-TW3	Automatic Signal Conditioner w. LUT Temp. Comp. and 1Vpp (100 Ohm)/2Vpp Outputs	QFN32-5×5
iC-WT	3-Channel Photodiode Amplifier-Comparator with LED Controller	SO16N

Laser Diode an	Package	
iC-HB	ors, barcode scanners, laser leveling, laser printers, copiers, laser pointers Triple 155 MHz Laser Switch with LVDS Inputs	QFN24-4×4
iC-HG	200 MHz Laser Switch for up to 9 A (pulsed)	QFN28-5×5
C-HGP	200 MHz High-Side Laser Switch for up to 9 A (pulsed)	QFN32-5×5
C-HK, iC-HKB	155 MHz Dual Channel Spike-Free Laser Switch	SO8N-TP, MSOP8-TP
C-HN	Short Pulse 1.4 A Laser Driver	DFN8-3×3
C-HN3	Short Pulse 2.8 A Laser Driver	DFN8-3×3
C-HT	Dual CW N/M-Type Laser Diode Driver with SPI/I2C Controller for up to 1.5A	QFN28-5×5
C-HTG	Power CW Laser Diode Driver	QFN24-4×4
C-HTP	Dual CW P-Type Laser Diode Driver with SPI/I2C Controller for up to 1.5A	QFN28-5×5
C-NZ	Fail-Safe Laser Diode Driver for CW and Pulse Operation up to 155MHz	QFN28-5×5
C-NZN, iC-NZP	N-Type / P-Type Laser Diode Driver with APC and ACC	QFN24-4×4
C-WJ, iC-WJZ	Laser Diode Driver for CW and Pulse Operation up to 300 kHz	SO8, MSOP8
C-WJB	Laser Diode Driver for Battery Supplies of 2.7 to 6V	SO8, MSOP8
C-WK, iC-WKL	Universal Laser Saver® for CW Operation of 2.4 to 6V	SO8, MSOP8
C-WKM	CW Laser Diode Driver, Optimized for (Blue) M-Type Laser Diodes	SO8N-TP, DFN10-4×4
C-WKN	CW Laser Diode Driver, Optimized for N-Type Laser Diodes	SO8N-TP, DFN10-4×4
C-WKP	CW Laser Diode Driver, Optimized for P-Type Laser Diodes	SO8N-TP, DFN10-4×4
Relay/Solenoid or relays, magnet	Drivers ic valves, photovoltaic modules	Package
C-GE	PWM Relay/Solenoid Driver for a Wide Operating Voltage Range (1A)	QFN16-4×4
C-GE100	PWM Relay/Solenoid Driver (100 mA)	DFN8-3×3
C-JE	Power-Saving PWM Relay/Solenoid Driver	SO8
24V and 5V Li	ne Drivers tion, industrial controls, position sensors	Package
C-DL	3-Channel Differential Line Driver with Integrated Impedance Adaptation	QFN28-5×5
	3-Channel Differential Line Driver with Integrated Impedance Adaptation Quad Differential Line Driver, Pin-Compatible with xx2068	QFN28-5×5 TSSOP20, TSSOP20-TP
C-HD2		
C-HD2 C-HD7	Quad Differential Line Driver, Pin-Compatible with xx2068	TSSOP20, TSSOP20-TP
C-HD2 C-HD7 C-HE	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31	TSSOP20, TSSOP20-TP SO16N
C-HD2 C-HD7 C-HE C-HF	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31 Triple Differential Line Driver	TSSOP20, TSSOP20-TP SO16N SO14N
C-HD2 C-HD7 C-HE C-HF C-HX	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31 Triple Differential Line Driver 6-Channel Encoder Link, RS422 Driver/Receiver	TSSOP20, TSSOP20-TP SO16N SO14N QFN32-5×5
C-HD2 C-HD7 C-HE C-HF C-HX	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31 Triple Differential Line Driver 6-Channel Encoder Link, RS422 Driver/Receiver 3-Channel Differential Line Driver with Reduced Power Dissipation	TSSOP20, TSSOP20-TP SO16N SO14N QFN32-5×5 QFN28-5×5 SO16W, TSSOP20
C-HD2 C-HD7 C-HE C-HF C-HX C-VX C-WE	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31 Triple Differential Line Driver 6-Channel Encoder Link, RS422 Driver/Receiver 3-Channel Differential Line Driver with Reduced Power Dissipation 3-Channel Differential Line Driver with Complementary 24V Outputs	TSSOP20, TSSOP20-TP SO16N SO14N QFN32-5×5 QFN28-5×5
C-HD2 C-HD7 C-HE C-HF C-HX C-VX C-WE Output Stages for proximity sense	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31 Triple Differential Line Driver 6-Channel Encoder Link, RS422 Driver/Receiver 3-Channel Differential Line Driver with Reduced Power Dissipation 3-Channel Differential Line Driver with Complementary 24V Outputs 3-Channel 75 Ohm Line Driver for RS422 and 24V Applications	TSSOP20, TSSOP20-TP SO16N SO14N QFN32-5×5 QFN28-5×5 SO16W, TSSOP20 SO16W, SO20W, TSSOP20-
C-HD2 C-HD7 C-HE C-HF C-HX C-VX C-WE Dutput Stages for proximity sense	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31 Triple Differential Line Driver 6-Channel Encoder Link, RS422 Driver/Receiver 3-Channel Differential Line Driver with Reduced Power Dissipation 3-Channel Differential Line Driver with Complementary 24V Outputs 3-Channel 75 Ohm Line Driver for RS422 and 24V Applications	TSSOP20, TSSOP20-TP SO16N SO14N QFN32-5×5 QFN28-5×5 SO16W, TSSOP20 SO16W, SO20W, TSSOP20-
C-HD2 C-HD7 C-HE C-HF C-HX C-VX C-WE Output Stages for proximity sense C-DN C-DP	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31 Triple Differential Line Driver 6-Channel Encoder Link, RS422 Driver/Receiver 3-Channel Differential Line Driver with Reduced Power Dissipation 3-Channel Differential Line Driver with Complementary 24V Outputs 3-Channel 75 Ohm Line Driver for RS422 and 24V Applications prs, light barriers, relays, microcontroller applications 200 mA Low-Side Switch for 4V to 36V with Input/Output Decoupling	TSSOP20, TSSOP20-TP SO16N SO14N QFN32-5×5 QFN28-5×5 SO16W, TSSOP20 SO16W, SO20W, TSSOP20- Package SOT23-6L, SC59-3L
C-HD2 C-HD7 C-HE C-HF C-HX C-VX C-WE Output Stages for proximity sense C-DN C-DP C-DX, iC-DX3	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31 Triple Differential Line Driver 6-Channel Encoder Link, RS422 Driver/Receiver 3-Channel Differential Line Driver with Reduced Power Dissipation 3-Channel Differential Line Driver with Complementary 24V Outputs 3-Channel 75 Ohm Line Driver for RS422 and 24V Applications ors, light barriers, relays, microcontroller applications 200 mA Low-Side Switch for 4V to 36V with Input/Output Decoupling 200 mA High-Side Switch and Level Shift for 4V to 36V with Input/Output Decoupling Digital Sensor Output Driver (150 mA)	TSSOP20, TSSOP20-TP SO16N SO14N QFN32-5×5 QFN28-5×5 SO16W, TSSOP20 SO16W, SO20W, TSSOP20- Package SOT23-6L, SC59-3L SOT23-6L, SC59-3L
iC-DL iC-HD2 iC-HD7 iC-HE iC-HF iC-HX iC-WE Output Stages for proximity sense iC-DN iC-DP iC-DX, iC-DX3 iC-DXC3 iC-MFL	Quad Differential Line Driver, Pin-Compatible with xx2068 Quad Differential Line Driver, Pin-Compatible with xx7272 and 26xx31 Triple Differential Line Driver 6-Channel Encoder Link, RS422 Driver/Receiver 3-Channel Differential Line Driver with Reduced Power Dissipation 3-Channel Differential Line Driver with Complementary 24V Outputs 3-Channel 75 Ohm Line Driver for RS422 and 24V Applications ors, light barriers, relays, microcontroller applications 200 mA Low-Side Switch for 4V to 36V with Input/Output Decoupling 200 mA High-Side Switch and Level Shift for 4V to 36V with Input/Output Decoupling Digital Sensor Output Driver (150 mA)	TSSOP20, TSSOP20-TP SO16N SO14N QFN32-5×5 QFN28-5×5 SO16W, TSSOP20 SO16W, SO20W, TSSOP20- Package SOT23-6L, SC59-3L SOT23-6L, SC59-3L DFN6-2×2



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LEDs Control of the c				
LEDs for optical enc	oders	Package		
iC-TL46	Blue 460 nm LED with Lens for High-Resolution Optical Encoders	TO46-2L1, BLCC SD1C		
iC-TL6	Masked Point Source 640 nm LED	BLCC2 1206		
iC-TL85	Infrared 850 nm LED with Lens or Flat Window for High-Resolution Optical Encoders	TO46-2L1, TO46-2F1		
iC-SD85	Infrared 850 nm LED with Lens or Flat Glass for High-Resolution Optical Encoders	BLCC SD1C, oLGA SD2C, BLCC SD3C		
iC-SG85	Infrared 850 nm LED with Plastic Lens for High-Quality Large Area Illumination in High-Resolution Optical Encoders	BLCC SG1C, BLCC SG4C		
iC-SN85	Infrared 850 nm LED with Plastic Lens for High-Quality Large Area Illumination	BLCC SN1C, BLCC SN2C		

Tools

Adapters and Instruments

MB3U BiSS (SSI)-to-PC Adapter (USB)

MB3U-I2C BiSS (SSI) and I2C-to-PC Adapter (USB)

MB4U High-Performance BiSS (SSI)-to-PC USB Adapter

MB5U High Performance Galvanic Isolated BiSS (SSI)-to-PC USB Adapter

SinCosYzer 2 Sine Encoder Signal Acquisition with Graphical Analysis

Laser Tools

iC149 Programmable ns-Pulse Generator

iC212 High-Speed Photoreceiver with Si-PIN Photodiode iC212NIR High-Speed Photoreceiver for Near Infrared

iC213 Programmable Oscillator Module (40 kHz to 1.4 GHz)

iC227 Dual 11 GHz Sampling Oscilloscope

Encoder Evaluation Boards

MU1C Off-Axis Motor Feedback Module

MU3C Battery-Buffered Hall Multiturn Encoder Evaluation Board

PV1M1 Evaluation Board iC-PV/iC-MHM

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