

74LCX, HCF, M74HC, 74VHC

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Россия +7(495)268-04-70	Киргизия +996(312)-96-26-47	Казахстан +7(7172)727-132	

Automotive Logic ICs

Overview

Our automotive-grade logic ICs meet the requirements of extreme reliability and quality demanded by the market. Supporting temperature ranges that can go up to 125°C, our automotive logic devices offer:

- AEC-Q100 and Q101 compliance
- TS-16949 certification
- PPAP availability
- AEC-Q001 and Q002 guidelines for Statistical Yield Analysis (SYA) and Part Average Testing (PAT) at EWS
- Specific screening and test methods above and beyond AEC-Q100 compliance, such as performance of a 100% hot test (125°C) during the back-end (packaging and testing) stage

Discover our range of logic ICs for Automotive applications

Buffers & Line drivers

Discover our buffer and line driver portfolio, including quad and hexadecimal bus buffers.

Flip-flops & Registers

Find out more about our flip-flops, latches and shift registers for Automotive applications, qualified according to AEC-Q100.

Counters / Encoders / Decoders

Browse our automotive-grade counters, encoders and decoders, qualified according to AEC-Q100.

Gate ICs

Find now automotive Gate ICs offering several functions such as AND, NAND and OR gates, hex inverters and Schmitt triggers.

Buffers/drivers

Overview

ST's automotive logic IC portfolio includes **quad** and **hexadecimal bus buffers** from the **74LCX**, **M74HC** and **HCF families** offering excellent latch-up performance, power-down protection on inputs and outputs, low power dissipation and high noise immunity.

Compatible with 3.3V, 5V and 20V applications, ST's **automotive-grade** line drivers and buffers are qualified according to AEC-Q100 and available in TSSOP or SO packages.

Other logic functions such as counters, encoders & decoders, flip-flops & registers and gate ICs are also available from ST's portfolio.

Automotive Logic ICs/Buffers/drivers

Part Number	General Description	Package	Supply Voltage (V) min	Supply Voltage (V) max	Vi Range	Operating Temperature (°C) min	Operating Temperature (°C) max
74LCX07	Hex Buffer (open drain) with 5V Tolerant Input	SO-14,TSSOP-14L	2	3.6	5.5	-40	85
74LCX125	Low voltage CMOS quad bus buffer (3-State) with 5V tolerant inputs and outputs	SO-14,TSSOP-14L	2	3.6	5.5	-40	85
HCF4010	Hex Buffer/Converters non Inverting	SO-16	3	20	0 to Vcc	-40	125
M74HC126	Quad Bus Buffer (3-State)	SO-14,TSSOP-14L	2	6	0 to VCC	-40	125
M74HC365	Hex Bus Buffer (3-State)	SO-16,TSSOP-16L	2	6	0 to VCC,0 to Vcc	-40	125

Counters/Encoders/Decoders

Overview

ST's automotive logic IC portfolio includes **14-stage binary counters and oscillators** from **M74HC** and **HCF families** with good ESD performance, high noise immunity and low power dissipation.

A 9-bit high-speed parity generator able to generate either odd or even parity outputs is also available, for application flexibility. In addition to a **wide operating voltage range** and **balanced propagation delays**, the parity generator's word-length capability is easily expanded by cascading.

ST's **automotive-grade** counters, encoders and decoders are qualified according to AEC-Q100 and available in TSSOP or SO packages.

Other logic functions such as flip-flops & registers, buffers & drivers and gate ICs are also available from ST's portfolio.

Automotive Logic ICs/Counters/Encoders/Decoders

Part Number	General Description	Package	Grade	Supply Voltage (V) max	Supply Voltage (V) min	Vi Range	Logical Function	Operating Ambient Temperature max	Operating Ambient Temperature min
HCF4060	14 stage binary counter/driver and oscillator	SO-16	Automotive	20	3	0 to Vcc	-	-	-
M74HC280	9 Bit Parity Generator	SO-14	Automotive	6	2	0 to Vcc	-	-	-
M74HC4060	14-Stage Binary Counter/Oscillator	SO-16,TSSOP-16L	Automotive,Industrial	6	2	0 to Vcc	14-Stage Binary Counter/Oscillator	125	-55

FlipFlop/registers

Overview

ST's automotive logic IC portfolio includes **flip-flops**, **latches** and several **shift registers** from the **M74HC** and **HCF families**.

Our HCF4013 dual D-type flip-flop consists of two identical, independent data type flip-flops. Each flip-flop has independent data, set, reset, and clock inputs, and Q and Q outputs. This device can be used for shift register applications. It can also be used for counter and toggle applications by connecting the Q output to the data input.

Our portfolio also includes 8-stage static Shift and Shift-AND-Store register ICs with a storage latch associated with each stage for strobing data from the serial input to parallel buffered 3-state outputs.

Several 8-bit switch and latch register ICs are also available. With independent clock inputs, these high-speed devices are ideal for use in high-power loads typical of automotive circuits.

ST's **automotive-grade** flip-flops, latches and shift registers are qualified according to AEC-Q100 and available in TSSOP or SO packages.

Other logic functions such as gate ICs, buffers & drivers and counters, encoders & decoders are also available from ST's portfolio.

Automotive Logic ICs/FlipFlop/registers

Part Number	General Description	Package	Supply Voltage (V) min	Supply Voltage (V) max	Vi Range	Operating Temperature (°C) min	Operating Temperature (°C) max
HCF4013	Dual D Flip-Flop	SO-14	3	20	0 to Vcc	-40	125
HCF4021	8-Stage Static Shift Register	SO-16	3	20	0 to Vcc	-40	125
HCF4094	8-Stage Shift-AND-Store Bus Register	SO-16	3	20	0 to Vcc	-40	125
M74HC259	8 Bit Addressable Latch	SO-16,TSSOP-16L	2	6	0 to Vcc	-40	125
M74HC4094	8 Bit SIPO Shift Register Latch (3-State)	SO-16,TSSOP-16L	2	6	0 to Vcc	-40	125
M74HC595	8 Bit Shift Register Output Latch (3-State)	SO-16,TSSOP-16L	2	6	0 to Vcc	-40	125

Gates

Overview

ST's automotive logic IC portfolio offers a variety of **Gate ICs** offering several functions such as AND, NAND, and OR gates, hex inverters and Schmitt triggers from **74LCX**, **M74HC**, **HCF** and **74VHC** families.

Designed to ensure effective transitions and provide different voltage thresholds, these **robust devices** are compatible with 3.3V, 5V and 20V automotive applications. ST's **automotive-grade** Gate ICs are qualified according to AEC-Q100 and available in TSSOP or SO packages.

Other logic functions such as buffers & drivers, counters, encoders & decoders, and flip-flops & registers are also available from ST's portfolio.

Automotive Logic ICs/Gates

Part Number	General Description	Package	Supply Voltage (V) min	Supply Voltage (V) max	Vi Range	Operating Temperature (°C) min	Operating Temperature (°C) max
74LCX00	Low voltage CMOS QUAD 2-Input NAND gate with 5V tolerant inputs	SO-14,TSSOP-14L	2	3.6	0 to 5V5	-40	85
74VHC14	Hex Schmitt Inverter	SO-14,TSSOP-14L	2	5.5	0 to Vcc	-40	125
HCF40106	Hex Schmitt Trigger	SO-14	3	20	0 to Vcc	-40	125
HCF4069U	Hex Inverter	SO-14	3	20	0 to Vcc	-40	125
HCF4070	Quad Ex-OR Gate	SO-14	3	20	0 to Vcc	-40	125
HCF4093	Quad 2-Input NAND Schmitt Trigger	SO-14	3	20	0 to Vcc	-40	125
M74HC04	Hex Inverter	SO-14,TSSOP-14L	2	6	0 to Vcc	-40	125
M74HC08	Quad 2-Input AND Gate	SO-14,TSSOP-14L	2	6	0 to Vcc	-40	125
M74HC132	Quad 2-Input Schmitt NAND Gate	SO-14,TSSOP-14L	2	6	0 to Vcc	-40	125
M74HC14	Hex Schmitt Inverter	SO-14,TSSOP-14L	2	6	0 to Vcc	-40	125

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