



Product Change Notification **CN-202402003F**

Issue date: 23 Dec 2024

Effective date: 24 Mar 2025

Dear pcn@ttiinc.com,

Here's your personalized quality information concerning products our customers and partners purchased from Nexperia.

For more details please contact your respective Nexperia CSR/AM.



Introduce additional subcon TFME (for selected TSSOP14/16) and BOM change in existing location ATXSZ (SO14/16 & TSSOP14/16/20)

Change Category

- | | | | | |
|--|--|---|--|---|
| <input type="checkbox"/> Wafer Fab Process | <input checked="" type="checkbox"/> Assembly Process | <input checked="" type="checkbox"/> Product Marking | <input checked="" type="checkbox"/> Test Location | <input type="checkbox"/> Design |
| <input type="checkbox"/> Wafer Fab Materials | <input checked="" type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification | <input type="checkbox"/> Test Process | <input type="checkbox"/> Errata |
| | | <input type="checkbox"/> Packing/Shipping/Labeling | <input checked="" type="checkbox"/> Test Equipment | <input type="checkbox"/> Electrical spec./Test coverage |

Wafer
Fab Assembly
Location Location

Details of this change

Introduce additional Full Turnkey subcon
TFME and BOM change in existing location ATXSZ
to standardize and improve quality and support market growth and customer demand. (Phase 2).

- No change in form, fit, function, quality, workability and reliability anticipated.
- No impact on the product's functionality anticipated.
- No change in diffusion fab location or fab process (same die with same electrical distribution).
- No change in data sheet and test limits.
- No change in ordering code 12NC (sales part number).
- Phase 1 ATXSZ (communicated via PCN CN-202307004F) has been implemented.

Qualification_Report_PCN_CN-202402003F.pdf:

https://qcm.nexperia.com/Document/DOC-586924/Qualification_Report_PCN_CN-202402003F.pdf

Why do we implement this change?

- Introduce 2nd source production location TFME to support market growth and secure contingency situation.
- To support increased customer demand.
- Order Lead-Time Improvement.
- Improved delamination performance.
- Supporting global efforts towards sustainability by reducing the use of so-called conflict minerals.

Identification of affected products

Assembly location identifier on product marking and Product Manufacturing Code (PMC) on reel and box labels code 2nd character represent the assembly location, “X” for ATXSZ and “2” for TFME.

Management summary

Nexperia is pleased to announce TFME (TongFu Microelectronics Co. Ltd. Nantong China) as additional location for assembly and test TSSOP14/16 Nexperia products. The existing assembly and test location ATXSX (ATX Semiconductors Suzhou China) will change BOM to secure standardization on product level.

Product availability

Production

Planned first shipment: 23 Mar 2025

Sample information

Samples are available upon request

Impact

No impact to the product's functionality anticipated

Data sheet revision

No impact to existing datasheet

Disposition of old products

Shipment of changed product to start after depletion existing materials.

Feedback

Your acknowledgement of this change, conform JEDEC J-STD-046, is expected till 22 Jan 2025. Lack of acknowledgement of the PCN constitutes acceptance of the change.

Additional information

[View Change Notification Online](#)

Remarks

Assembly location indicator suffix on the product topside marking and on the reel and box label: "X"= ATXSZ (Nexperia Assembly and Test Plant Suzhou China) and "2"= TFME (TongFu Microelectronics Co. Ltd. Nantong China).
Samples are available upon request via Helpdesk+ from BG IC Solutions sample store in Nijmegen the Netherlands. Maximum sample order 300 pieces per type for limited products.

Contact and support

For all Quality Notification content inquiries, please contact your local Nexperia Sales Support Team.

For specific questions on this notice or the products affected please contact our specialist directly: pcn@nexperia.com

In case of distribution, please contact your distribution partner.

About Nexperia B.V.

We at Nexperia are the efficiency semiconductor company. We deliver over 90 billion products a year and as such service thousands of global customers, both directly and through our extensive network of channel partners. We are at

the heart of billions of electronic devices in the Automotive, Mobile, Industrial, Consumer, Computing, and Communication Infrastructure segments.

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74HCT151D
74HCT151PW
74HCT153D
74HCT153PW
74HCT157D
74HCT157PW
74HCT164D
74HCT164PW
74HCT165D
74HCT165PW
74HCT166D
74HCT166PW
74HCT173D
74HCT174D
74HCT174PW
74HCT175D
74HCT175PW
74HCT193D
74HCT193PW
74HCT221D
74HCT238D
74HCT238PW
74HCT240PW
74HCT241PW
74HCT244PW
74HCT245PW
74HCT251D
74HCT251PW
74HCT253D
74HCT253PW
74HCT257D
74HCT257PW
74HCT259D
74HCT259PW
74HCT273PW
74HCT27D
74HCT27PW
74HCT280D
74HCT280PW
74HCT30D
74HCT30PW
74HCT32D
74HCT32PW
74HCT365D
74HCT365PW
74HCT366D

74HCT366PW
74HCT367D
74HCT367PW
74HCT368D
74HCT368PW
74HCT373PW
74HCT374PW
74HCT377PW
74HCT390D
74HCT390PW
74HCT393D
74HCT393PW
74HCT4017D
74HCT4020D
74HCT4020PW
74HCT4040D
74HCT4040PW
74HCT4046AD
74HCT4046APW
74HCT4051D
74HCT4051PW
74HCT4052D
74HCT4052PW
74HCT4053D
74HCT4053PW
74HCT4060D
74HCT4066D
74HCT4066PW
74HCT4094D
74HCT4094PW
74HCT4316D
74HCT4316PW
74HCT4511D
74HCT4520D
74HCT4538D
74HCT4538PW
74HCT4851D
74HCT4851PW
74HCT4852PW
74HCT540PW
74HCT541PW
74HCT573PW
74HCT574PW
74HCT594D
74HCT594PW
74HCT595D
74HCT595PW
74HCT597D
74HCT597PW
74HCT74D

74HCT74PW
74HCT7541PW
74HCT85D
74HCT85PW
74HCT86D
74HCT86PW
74HCU04D
74HCU04PW
74LV00APW
74LV00D
74LV00PW
74LV02APW
74LV03D
74LV04ATPW
74LV04D
74LV04PW
74LV05APW
74LV07APW
74LV07ATPW
74LV08APW
74LV08D
74LV08PW
74LV123D
74LV123PW
74LV132D
74LV132PW
74LV138D
74LV138PW
74LV14APW
74LV14D
74LV14PW
74LV164D
74LV164PW
74LV165AD
74LV165APW
74LV165D
74LV165PW
74LV17APW
74LV244APW
74LV244ATPW
74LV244PW
74LV245APW
74LV245ATPW
74LV245PW
74LV32APW
74LV393D
74LV393PW
74LV4051D
74LV4051PW
74LV4052D

74LV4052PW
74LV4053D
74LV4053PW
74LV4060D
74LV4060PW
74LV4066D
74LV4066PW
74LV4094D
74LV4094PW
74LV540APW
74LV541APW
74LV541ATPW
74LV595D
74LV595PW
74LV7032APW
74LV74D
74LV74PW
74LVC00AD
74LVC00APW
74LVC02AD
74LVC02APW
74LVC04AD
74LVC04APW
74LVC06AD
74LVC06APW
74LVC07AD
74LVC07APW
74LVC10AD
74LVC10APW
74LVC11D
74LVC11PW
74LVC125AD
74LVC125APW
74LVC126AD
74LVC126APW
74LVC132AD
74LVC132APW
74LVC138AD
74LVC138APW
74LVC139D
74LVC139PW
74LVC14AD
74LVC14APW
74LVC157AD
74LVC157APW
74LVC161D
74LVC161PW
74LVC163D
74LVC163PW
74LVC2244APW

74LVC2245APW
74LVC240APW
74LVC257AD
74LVC257APW
74LVC273PW
74LVC32AD
74LVC32APW
74LVC373APW
74LVC374APW
74LVC377PW
74LVC4066D
74LVC4066PW
74LVC4T3144PW
74LVC541APW
74LVC573APW
74LVC574APW
74LVC594AD
74LVC594APW
74LVC595AD
74LVC595APW
74LVC74AD
74LVC74APW
74LVC86AD
74LVC86APW
74LVC8T595PW
74LVCH244APW
74LVCH245APW
74LVCU04AD
74LVCU04APW
74LVT02D
74LVT02PW
74LVT04D
74LVT04PW
74LVT08D
74LVT08PW
74LVT125D
74LVT125PW
74LVT126D
74LVT126PW
74LVT14D
74LVT14PW
74LVT2241PW
74LVT2244PW
74LVT2245PW
74LVT240PW
74LVT241PW
74LVT244APW
74LVT244BPW
74LVT245BPW
74LVT245PW

74LVT573PW
74LVT640PW
74LVTH125D
74LVTH125PW
74LVTH2245PW
74LVTH244APW
74LVTH244BPW
74VHC02D
74VHC02PW
74VHC08D
74VHC08PW
74VHC125D
74VHC125PW
74VHC126D
74VHC126PW
74VHC14D
74VHC14PW
74VHC244PW
74VHC32D
74VHC32PW
74VHC541PW
74VHCT02D
74VHCT02PW
74VHCT08D
74VHCT08PW
74VHCT125D
74VHCT125PW
74VHCT126D
74VHCT126PW
74VHCT14D
74VHCT14PW
74VHCT244PW
74VHCT245PW
74VHCT32D
74VHCT32PW
74VHCT541PW
74VHCT595D
74VHCT595PW
CBT3251D
CBT3251PW
CBT3253AD
CBT3253APW
CBT3257AD
CBT3257APW
HEF4001BT
HEF4007UBT
HEF40106BTT
HEF4011BT
HEF4013BTT
HEF4014BT

HEF4015BT
HEF4016BT
HEF40175BT
HEF40175BTT
HEF4017BT
HEF4021BT
HEF4021BTT
HEF4027BT
HEF4028BT
HEF4030BT
HEF4040BT
HEF4043BT
HEF4046BT
HEF4047BT
HEF4051BTT
HEF4052BTT
HEF4053BTT
HEF4060BT
HEF4060BTT
HEF4066BT
HEF4069UBTT
HEF4070BT
HEF4071BT
HEF4073BT
HEF4077BT
HEF4081BT
HEF4082BT
HEF4094BTT
HEF4518BT
HEF4520BT
HEF4528BT
HEF4538BT
HEF4543BT
HEF4555BT
HEF4794BT
HEF4894BTT
LSF0108PW
LSF0204PW
NXB0104PW
NXB0108PW
NXS0104PW
NXS0108PW
XS3A2467PW
XS3A4051PW
XS3A4052PW
XS3A4053PW

BasicType_description
Quad 2-input NAND gate
Quad 2-input NAND gate
Hex inverter
Hex inverter
Quad 2-input AND gate
Quad 2-input AND gate
Quad buffer; 3-state
Quad buffer; 3-state
Quad buffer; 3-state
Quad buffer; 3-state
Octal buffer/line driver (3-State)
Octal transceiver with direction pin (3-State)
Quad 2-input OR gate
Quad 2-input OR gate
Dual D-type flip-flop with set and reset; positive-edge trigger
Dual D-type flip-flop with set and reset; positive-edge trigger
Quad 2-input NAND gate
Quad 2-input NAND gate
Quad 2-input NOR gate
Quad 2-input NOR gate
hex inverter
hex inverter
Quad 2-input AND gate
Quad 2-input AND gate
Dual retriggerable monostable multivibrator with reset
Dual retriggerable monostable multivibrator with reset
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad 2-input NAND Schmitt trigger
Quad 2-input NAND Schmitt trigger
3-to-8 line decoder/demultiplexer; inverting
3-to-8 line decoder/demultiplexer; inverting
Dual 2-to-4 line decoder/demultiplexer
Dual 2-to-4 line decoder/demultiplexer
Hex inverting Schmitt trigger
Hex inverting Schmitt trigger
Quad 2-input multiplexer
Quad 2-input multiplexer
8-bit serial-in/parallel-out shift register
8-bit serial-in/parallel-out shift register
Octal buffer/line driver; 3-state
Quad 2-input multiplexer; 3-state
Quad 2-input multiplexer; 3-state
Octal D-type flip-flop with reset; positive-edge trigger
8-input NAND gate
8-input NAND gate
Quad 2-input OR gate

Quad 2-input OR gate
Octal D-type transparent latch; 3-state
Octal D-type flip-flop; positive-edge trigger; 3-state
Octal buffer/line driver; 3-state
Octal D-type transparent latch; 3-state
Octal D-type flip-flop; positive-edge trigger; 3-state
8-bit shift register with output register
8-bit shift register with output register
Dual D-type flip-flop with set and reset; positive-edge trigger
Dual D-type flip-flop with set and reset; positive-edge trigger
Quad 2-input EXCLUSIVE-OR gate
Quad 2-input EXCLUSIVE-OR gate
Octal buffer/line driver; 3-state
Quad 2-input NAND gate
Quad 2-input NAND gate
Quad 2-input NOR gate
Quad 2-input NOR gate
Hex inverter
hex inverter
hex inverter
Hex buffer with open-drain outputs
Quad 2-input AND gate
Quad 2-input AND gate
Dual retriggerable monostable multivibrator with reset
Dual retriggerable monostable multivibrator with reset
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad 2-input NAND Schmitt trigger
Quad 2-input NAND Schmitt trigger
3-to-8 line decoder/demultiplexer; inverting
3-to-8 line decoder/demultiplexer; inverting
Dual 2-to-4 line decoder/demultiplexer
Dual 2-to-4 line decoder/demultiplexer
Hex inverting Schmitt trigger
Hex inverting Schmitt trigger
Hex inverting Schmitt trigger
Quad 2-input multiplexer
Quad 2-input multiplexer
8-bit serial-in/parallel-out shift register
8-bit serial-in/parallel-out shift register
Hex buffer Schmitt trigger
Octal buffer/line driver; inverting; 3-state
Octal buffer/line driver; 3-state
Octal buffer/line driver; 3-state
Octal bus transceiver; 3-state
Octal bus transceiver; 3-state
Quad 2-input multiplexer; 3-state
Quad 2-input multiplexer; 3-state

Octal D-type flip-flop with reset; positive-edge trigger
8-input NAND gate
8-input NAND gate
Quad 2-input OR gate
Quad 2-input OR gate
Octal D-type flip-flop; positive-edge trigger; 3-state
Octal buffer/line driver; 3-state
Octal buffer/line driver; 3-state
Octal D-type transparent latch; 3-state
Octal D-type flip-flop; positive-edge trigger; 3-state
8-bit shift register with output register
8-bit shift register with output register
8-bit serial-in/serial-out or parallel-out shift register
8-bit serial-in/serial-out or parallel-out shift register
Dual D-type flip-flop with set and reset; positive-edge trigger
Dual D-type flip-flop with set and reset; positive-edge trigger
Quad 2-input EXCLUSIVE-OR gate
Quad 2-input EXCLUSIVE-OR gate
Hex unbuffered inverter
Hex unbuffered inverter
Hex inverter Schmitt trigger with open-drain outputs
Hex buffer with open-drain outputs
Hex inverting Schmitt trigger
Hex buffer Schmitt trigger
Octal buffer/line driver; 3-state
Octal bus transceiver; 3-state
Octal buffer/line driver; 3-state
Quad 2-input NAND gate
Quad 2-input NAND gate
Quad 2-input NOR gate
Quad 2-input NOR gate
Hex inverter
Hex inverter
Quad 2-input AND gate
Quad 2-input AND gate
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Hex inverting Schmitt trigger
Hex inverting Schmitt trigger
Octal buffer/line driver; 3-state
Octal bus transceiver; 3-state
Quad 2-input OR gate
Quad 2-input OR gate
Octal D-type transparent latch; 3-state
Octal D-type flip-flop; positive-edge trigger; 3-state
Octal buffer/line driver; 3-state
Octal D-type transparent latch; 3-state
Octal D-type flip-flop; positive-edge trigger; 3-state
Dual D-type flip-flop with set and reset; positive-edge trigger
Dual D-type flip-flop with set and reset; positive-edge trigger

4-bit dual supply translating transceiver with configurable voltage translation; 3-state
4-bit dual supply translating transceiver; 3-state
4-bit dual supply translating transceiver with configurable voltage translation; 3-state
4-bit dual supply translating transceiver with configurable voltage translation; 3-state
4-bit dual supply translating transceiver; 3-state
Dual 1-of-4 FET multiplexer/demultiplexer with charge pump
4-bit 1-of-2 FET multiplexer/demultiplexer with charge pump
4-bit bus switch
4-bit bus switch
8-bit bus switch with 4-bit output enables
8-bit bus switch with output enable
Dual 1-of-4 multiplexer/demultiplexer
Dual 1-of-4 multiplexer/demultiplexer
Quad 1-of-2 multiplexer/demultiplexer
8-bit level-shifting bus switch with 4-bit output enables
8-bit level-shifting bus switch with output enable
Quad 2-input NAND gate
Quad 2-input NAND gate
Quad 2-input NOR gate
Quad 2-input NAND gate; open-drain output
Quad 2-input NAND gate; open-drain output
Hex inverter
Hex inverter with open-drain outputs
Hex inverter with open-drain outputs
Quad 2-input AND gate
Dual JK flip-flop with reset; negative-edge trigger
Dual JK flip-flop with reset; negative-edge trigger
Dual JK flip-flop with set and reset; positive-edge trigger
Dual JK flip-flop with set and reset; positive-edge trigger
Triple 3-input NAND gate
Triple 3-input NAND gate
Dual JK flip-flop with set and reset; negative-edge trigger
Dual JK flip-flop with set and reset; negative-edge trigger
Triple 3-input AND gate
Triple 3-input AND gate
Dual retriggerable monostable multivibrator with reset
Dual retriggerable monostable multivibrator with reset
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad 2-input NAND Schmitt trigger
Quad 2-input NAND Schmitt trigger
3-to-8 line decoder, demultiplexer with address latches; inverting
3-to-8 line decoder/demultiplexer; inverting
3-to-8 line decoder/demultiplexer; inverting
Dual 2-to-4 line decoder/demultiplexer
Dual 2-to-4 line decoder/demultiplexer
Hex inverting Schmitt trigger
8-input multiplexer

8-input multiplexer
Dual 4-input multiplexer
Dual 4-input multiplexer
Quad 2-input multiplexer
Quad 2-input multiplexer
Presettable synchronous 4-bit binary counter; asynchronous reset
Presettable synchronous 4-bit binary counter; asynchronous reset
8-bit serial-in, parallel-out shift register
8-bit parallel-in/serial-out shift register
8-bit parallel-in/serial-out shift register
8-bit parallel-in/serial-out shift register
Quad D-type flip-flop; positive-edge trigger; 3-state
Quad D-type flip-flop; positive-edge trigger; 3-state
Hex D-type flip-flop with reset; positive-edge trigger
Hex D-type flip-flop with reset; positive-edge trigger
Quad D-type flip-flop with reset; positive-edge trigger
Quad D-type flip-flop with reset; positive-edge trigger
Presettable synchronous 4-bit binary up/down counter
Presettable synchronous 4-bit binary up/down counter
Presettable synchronous 4-bit binary up/down counter
Presettable synchronous 4-bit binary up/down counter
Dual 4-input NAND gate
Dual 4-input NAND gate
Dual 4-input AND gate
Dual 4-input AND gate
3-to-8 line decoder, demultiplexer with address latches
3-to-8 decoder/demultiplexer with address latches
3-to-8 line decoder/demultiplexer
3-to-8 line decoder/demultiplexer
Octal buffer/line driver; 3-state; inverting
Octal buffer/line driver; 3-state
Octal buffer/line driver; 3-state
Octal bus transceiver; 3-state
8-input multiplexer; 3-state
8-input multiplexer; 3-state
Dual 4-input multiplexer; 3-state
Dual 4-input multiplexer; 3-state
Quad 2-input multiplexer; 3-state
Quad 2-input multiplexer; 3-state
8-bit addressable latch
8-bit addressable latch
Octal D-type flip-flop with reset; positive-edge trigger
Triple 3-input NOR gate
Triple 3-input NOR gate
9-bit odd/even parity generator/checker
8-input NAND gate
8-input NAND gate
Quad 2-input OR gate
Quad 2-input OR gate
Hex buffer/line driver; 3-state

Hex buffer/line driver; 3-state
Hex buffer/line driver; 3-state; inverting
Hex buffer/line driver; 3-state; inverting
Hex buffer/line driver; 3-state
Hex buffer/line driver; 3-state
Hex buffer/line driver; 3-state; inverting
Hex inverter/line driver; 3-state
Octal D-type transparent latch; 3-state
Octal D-type flip-flop; positive-edge trigger; 3-state
Octal D-type flip-flop with data enable; positive-edge trigger
Dual decade ripple counter
Dual decade ripple counter
Dual 4-bit binary ripple counter
Dual 4-bit binary ripple counter
Dual 4-input NOR gate
Dual 4-input NOR gate
Johnson decade counter with 10 decoded outputs
Johnson decade counter with 10 decoded outputs
14-stage binary ripple counter
14-stage binary ripple counter
12-stage binary ripple counter
12-stage binary ripple counter
Phase-locked-loop with VCO
Phase-locked-loop with VCO
Hex inverting HIGH-to-LOW level shifter
Hex non-inverting HIGH-to-LOW level shifter
8-channel analog multiplexer/demultiplexer
Dual 4-channel analog multiplexer/demultiplexer
Triple 2-channel analog multiplexer/demultiplexer
Triple 2-channel analog multiplexer/demultiplexer
14-stage binary ripple counter with oscillator
14-stage binary ripple counter with oscillator
Quad single-pole single-throw analog switch
Quad single-pole single-throw analog switch
8-stage shift-and-store bus register
8-stage shift-and-store bus register
Dual retriggerable monostable multivibrator with reset
BCD to decimal decoder (1-of-10)
Quad single-pole single-throw analog switch
Quad single-pole single-throw analog switch
Single-pole octal-throw analog switch with latch
BCD to 7-segment latch/decoder/driver
Dual 4-bit synchronous binary counter
Dual retriggerable precision monostable multivibrator
Dual retriggerable precision monostable multivibrator
8-channel analog multiplexer/demultiplexer with injection-current effect control
8-channel analog multiplexer/demultiplexer with injection-current effect control
Dual 4-channel analog multiplexer/demultiplexer with injection-current effect control
Dual 4-channel analog multiplexer/demultiplexer with injection-current effect control
Octal inverter/line driver; 3-state

Octal buffer/line driver; 3-state
Octal D-type transparent latch; 3-state
Octal D-type flip-flop; positive-edge trigger; 3-state
8-bit binary counter with output register; 3-state
8-bit binary counter with output register; 3-state
8-bit shift register with output register
8-bit serial-in/parallel-out shift register
8-bit serial-in, serial or parallel-out shift register with output latches; 3-state
8-bit shift register with input flip-flops
8-bit shift register with input flip-flops
8-bit magnitude comparator
Dual JK flip-flop with reset; negative-edge trigger
Dual JK flip-flop with reset; negative-edge trigger
Dual D-type flip-flop with set and reset; positive-edge trigger
Octal Schmitt trigger buffer/line driver; 3-state
Octal Schmitt trigger buffer/line driver; 3-state
Quad bistable transparent latch
4-bit magnitude comparator
4-bit magnitude comparator
Quad 2-input EXCLUSIVE-OR gate
Quad 2-input EXCLUSIVE-OR gate
Quad 2-input NAND gate
Quad 2-input NAND gate
Quad 2-input NOR gate
Quad 2-input NOR gate
Quad 2-input NAND gate; open-drain output
Quad 2-input NAND gate; open-drain output
Hex inverter
Hex inverter
Quad 2-input AND gate
Quad 2-input AND gate
Dual JK flip-flop with reset; negative-edge trigger
Dual JK flip-flop with set and reset; positive-edge trigger
Dual JK flip-flop with set and reset; positive-edge trigger
Triple 3-input NAND gate
Triple 3-input NAND gate
Dual JK flip-flop with set and reset; negative-edge trigger
Dual JK flip-flop with set and reset; negative-edge trigger
Triple 3-input AND gate
Triple 3-input AND gate
Dual retriggerable monostable multivibrator with reset
Dual retriggerable monostable multivibrator with reset
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad 2-input NAND Schmitt trigger
Quad 2-input NAND Schmitt trigger
3-to-8 line decoder/demultiplexer; inverting
3-to-8 line decoder/demultiplexer; inverting

Dual 2-to-4 line decoder/demultiplexer
Dual 2-to-4 line decoder/demultiplexer
Hex inverting Schmitt trigger
Hex inverting Schmitt trigger
8-input multiplexer
8-input multiplexer
Dual 4-input multiplexer
Dual 4-input multiplexer
Quad 2-input multiplexer
Quad 2-input multiplexer
8-bit serial-in, parallel-out shift register
8-bit serial-in, parallel-out shift register
8-bit parallel-in/serial-out shift register
8-bit parallel-in/serial-out shift register
8-bit parallel-in/serial out shift register
Quad D-type flip-flop; positive-edge trigger; 3-state
Hex D-type flip-flop with reset; positive-edge trigger
Hex D-type flip-flop with reset; positive-edge trigger
Quad D-type flip-flop with reset; positive-edge trigger
Quad D-type flip-flop with reset; positive-edge trigger
Presettable synchronous 4-bit binary up/down counter
Presettable synchronous 4-bit binary up/down counter
Dual non-retriggerable monostable multivibrator with reset
3-to-8 line decoder/demultiplexer
3-to-8 line decoder/demultiplexer
Octal buffer/line driver; 3-state; inverting
Octal buffer/line driver; 3-state
Octal buffer/line driver; 3-state
Octal bus transceiver; 3-state
8-input multiplexer; 3-state
8-input multiplexer; 3-state
Dual 4-input multiplexer; 3-state
Dual 4-input multiplexer; 3-state
Quad 2-input multiplexer; 3-state
Quad 2-input multiplexer; 3-state
8-bit addressable latch
8-bit addressable latch
Octal D-type flip-flop with reset; positive-edge trigger
Triple 3-input NOR gate
Triple 3-input NOR gate
9-bit odd/even parity generator/checker
9-bit odd/even parity generator/checker
8-input NAND gate
8-input NAND gate
Quad 2-input OR gate
Quad 2-input OR gate
Hex buffer/line driver; 3-state
Hex buffer/line driver; 3-state
Hex buffer/line driver; 3-state; inverting

Hex buffer/line driver; 3-state; inverting
Hex buffer/line driver; 3-state
Hex buffer/line driver; 3-state
Hex buffer/line driver; 3-state; inverting
Hex buffer/line driver; 3-state; inverting
Octal D-type transparent latch; 3-state
Octal D-type flip-flop; positive-edge trigger; 3-state
Octal D-type flip-flop with data enable; positive-edge trigger
Dual decade ripple counter
Dual decade ripple counter
Dual 4-bit binary ripple counter
Dual 4-bit binary ripple counter
Johnson decade counter with 10 decoded outputs
14-stage binary ripple counter
14-stage binary ripple counter
12-stage binary ripple counter
12-stage binary ripple counter
Phase-locked-loop with VCO
Phase-locked-loop with VCO
8-channel analog multiplexer/demultiplexer
8-channel analog multiplexer/demultiplexer
Dual 4-channel analog multiplexer/demultiplexer
Dual 4-channel analog multiplexer/demultiplexer
Triple 2-channel analog multiplexer/demultiplexer
Triple 2-channel analog multiplexer/demultiplexer
14-stage binary ripple counter with oscillator
Quad single-pole single-throw analog switch
Quad single-pole single-throw analog switch
8-stage shift-and-store bus register
8-stage shift-and-store bus register; 3-state
Quad single-pole single-throw analog switch
Quad single-pole single-throw analog switch
BCD to 7-segment latch/decoder/driver
Dual 4-bit synchronous binary counter
Dual retriggerable precision monostable multivibrator
Dual retriggerable precision monostable multivibrator
8-channel analog multiplexer/demultiplexer with injection-current effect control
8-channel analog multiplexer/demultiplexer with injection-current effect control
Dual 4-channel analog multiplexer/demultiplexer with injection-current effect control
Octal inverter/line driver; 3-state
Octal buffer/line driver; 3-state
Octal D-type transparent latch; 3-state
Octal D-type flip-flop; positive-edge trigger; 3-state
8-bit shift register with output register
8-bit serial-in/parallel-out shift register
8-bit serial-in, serial or parallel-out shift register with output latches; 3-state
8-bit serial-in, serial or parallel-out shift register with output latches; 3-state
8-bit shift register with input flip-flops
8-bit shift register with input flip-flops
Dual D-type flip-flop with set and reset; positive-edge trigger

Dual D-type flip-flop with set and reset; positive-edge trigger
Octal Schmitt trigger buffer/line driver; 3-state
4-bit magnitude comparator
4-bit magnitude comparator
Quad 2-input EXCLUSIVE-OR gate
Quad 2-input EXCLUSIVE-OR gate
Hex unbuffered inverter
Hex unbuffered inverter
Quad 2-input NAND gate
Quad 2-input NAND gate
Quad 2-input NAND gate
Quad 2-input NOR gate
Quad 2-input NAND gate
Hex inverter
Hex inverter
Hex inverter
Hex inverter with open-drain outputs
Hex buffer with open-drain outputs
Hex buffer with open-drain outputs
Quad 2-input AND gate
Quad 2-input AND gate
Quad 2-input AND gate
Dual retriggerable monostable multivibrator with reset
Dual retriggerable monostable multivibrator with reset
Quad 2-input NAND Schmitt trigger
Quad 2-input NAND Schmitt trigger
3-to-8 line decoder/demultiplexer; inverting
3-to-8 line decoder/demultiplexer; inverting
Hex inverting Schmitt trigger
Hex inverting Schmitt trigger
Hex inverting Schmitt trigger
8-bit serial-in/parallel-out shift register
8-bit serial-in/parallel-out shift register
8-bit parallel-in/serial-out shift register
8-bit parallel-in/serial-out shift register
8-bit parallel-in/serial-out shift register
8-bit parallel-in/serial-out shift register
Hex buffer Schmitt trigger
Octal buffer/line driver; 3-state
Octal buffer/line driver; 3-state
Octal buffer/line driver (3-state)
Octal bus transceiver; 3-state
Octal bus transceiver; 3-state
Octal bus transceiver; 3-state
Quad 2-input OR gate
Dual 4-bit binary ripple counter
Dual 4-bit binary ripple counter
8-channel analog multiplexer/demultiplexer
8-channel analog multiplexer/demultiplexer
Dual 4-channel analog multiplexer/demultiplexer

Dual 4-channel analog multiplexer/demultiplexer
Triple single-pole double-throw analog switch
Triple single-pole double-throw analog switch
14-stage binary ripple counter with oscillator
14-stage binary ripple counter with oscillator
Quad bilateral switches
Quad bilateral switches
8-stage shift-and-store bus register
8-stage shift-and-store bus register
Octal buffer/line driver; 3-state; inverting
Octal buffer/line driver; 3-state
Octal buffer/line driver; 3-state
8-bit serial-in/serial-out or parallel-out shift register; 3-state
8-bit serial-in/serial-out or parallel-out shift register; 3-state
Quad 2-input OR gate with Schmitt trigger inputs
Dual D-type flip-flop with set and reset; positive-edge trigger
Dual D-type flip-flop with set and reset; positive-edge trigger
Quad 2-input NAND gate
Quad 2-input NAND gate
Quad 2-input NOR gate
Quad 2-input NOR gate
Hex inverter
Hex inverter
Hex inverter with open-drain outputs
Hex inverter with open-drain outputs
Hex buffer with open-drain outputs
Hex buffer with open-drain outputs
Triple 3-input NAND gate
Triple 3-input NAND gate
Triple 3-input AND gate
Triple 3-input AND gate
Quad buffer/line driver with 5 V tolerant input/outputs; 3-state
Quad buffer/line driver with 5 V tolerant input/outputs; 3-state
Quad buffer/line driver with 5 V tolerant input/outputs; 3-state
Quad buffer/line driver with 5 V tolerant input/outputs; 3-state
Quad 2-input NAND Schmitt trigger
Quad 2-input NAND Schmitt trigger
3-to-8 line decoder/demultiplexer; inverting
3-to-8 line decoder/demultiplexer; inverting
Dual 2-to-4 line decoder/demultiplexer
Dual 2-to-4 line decoder/demultiplexer
Hex inverting Schmitt trigger with 5 V tolerant input
Hex inverting Schmitt trigger with 5 V tolerant input
Quad 2-input multiplexer
Quad 2-input multiplexer
Presettable synchronous 4-bit binary counter; asynchronous reset
Presettable synchronous 4-bit binary counter; asynchronous reset
Presettable synchronous 4-bit binary counter; synchronous reset
Presettable synchronous 4-bit binary counter; synchronous reset
Octal buffer/line driver with 30 Ohm series termination resistors

Octal transceiver with direction pin
Octal buffer/line driver with 5 V tolerant inputs/outputs; inverting; 3-state
Quad 2-input multiplexer with 5 V tolerant inputs/outputs; 3-state
Quad 2-input multiplexer with 5 V tolerant inputs/outputs; 3-state
Octal D-type flip-flop with reset; positive-edge trigger
Quad 2-input OR gate
Quad 2-input OR gate
Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-State
Octal D-type flip-flop with 5 V tolerant inputs/outputs; positive-edge trigger; 3-state
Octal D-type flip-flop with data enable; positive-edge trigger
Quad bilateral switch
Quad bilateral switch
4-bit dual supply buffer/line driver; 3-state
Octal buffer/line driver with 5 V tolerant inputs/outputs; 3-state
Octal D-type transparent latch with 5 V tolerant inputs/outputs; 3-state
Octal D-type flip-flop with 5 V tolerant inputs/outputs; positive-edge trigger (3-state)
8-bit shift register with output register
8-bit shift register with output register
8-bit serial-in/serial-out or parallel-out shift register; 3-state
8-bit serial-in/serial-out or parallel-out shift register; 3-state
Dual D-type flip-flop with set and reset; positive-edge trigger
Dual D-type flip-flop with set and reset; positive-edge trigger
Quad 2-input EXCLUSIVE-OR gate
Quad 2-input EXCLUSIVE-OR gate
Dual supply 8-bit serial-in/serial-out or parallel-out shift register; 3-state
Octal buffer/line driver; 3-state
Octal bus transceiver; 3-state
Hex unbuffered inverter
Hex unbuffered inverter
3.3 V Quad 2-input NOR gate
3.3 V Quad 2-input NOR gate
3.3 V Hex inverter
3.3 V Hex inverter
3.3 V Quad 2-input AND gate
3.3 V Quad 2-input AND gate
3.3 V quad buffer; 3-state
3.3 V quad buffer; 3-state
3.3 V quad buffer; 3-state
3.3 V quad buffer; 3-state
3.3 V hex inverter Schmitt trigger
3.3 V hex inverter Schmitt trigger
3.3V Octal buffer/line driver with 30 Ohm series termination resistors; 3-State
3.3V Octal buffer/line driver with 30Ohm series termination resistors (3-State)
3.3 V octal transceiver with 30 Ohm termination resistors; 3-state
ABT octal inverting buffer (3-State)
3.3 V octal buffer/line driver; 3-state
3.3 V octal buffer/line driver; 3-state
3.3 V octal buffer/line driver; 3-state
3.3 V octal transceiver with direction pin (3-state)
3.3 V octal transceiver with direction pin (3-state)

3.3 V octal D-type transparent latch; 3-state
3.3V Octal transceiver with direction pin; inverting (3-State)
3.3 V quad buffer; 3-state
3.3 V quad buffer; 3-state
3.3 V octal transceiver with 30 Ohm termination resistors; 3-state
3.3 V octal buffer/line driver; 3-state
3.3 V octal buffer/line driver; 3-state
Quad 2-input NOR gate
Quad 2-input NOR gate
Quad 2-input AND gate
Quad 2-input AND gate
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Hex inverting Schmitt trigger
Hex inverting Schmitt trigger
Octal buffer_line driver; 3-state
Quad 2-input OR gate
Quad 2-input OR gate
Octal buffer_line driver; 3-state
Quad 2-input NOR gate
Quad 2-input NOR gate
Quad 2-input AND gate
Quad 2-input AND gate
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Quad buffer/line driver; 3-state
Hex inverting Schmitt trigger
Hex inverting Schmitt trigger
Octal buffer_line driver; 3-state
Octal bus transceiver; 3-state
Quad 2-input OR gate
Quad 2-input OR gate
Octal buffer_line driver; 3-state
8-bit serial-in_serial-out or parallel-out shift register
8-bit serial-in_serial-out or parallel-out shift register
1-of-8 FET multiplexer/demultiplexer
1-of-8 FET multiplexer/demultiplexer
Dual 1-of-4 FET multiplexer/demultiplexer
Dual 1-of-4 FET multiplexer/demultiplexer
Quad 1-of-2 multiplexer/demultiplexer
Quad 1-of-2 multiplexer/demultiplexer
Quad 2-input NOR gate
Dual complementary pair and inverter
Hex inverting Schmitt trigger
Quad 2-input NAND gate
Dual D-type flip-flop
8-bit static shift register

Dual 4-bit static shift register
Quadruple bilateral switches
Quad D-type flip-flop
Quad D-type flip-flop
5-stage Johnson decade counter
8-bit static shift register
8-bit static shift register
Dual JK flip-flop
BCD to decimal decoder
Quad 2-input EXCLUSIVE-OR gate
12-stage binary ripple counter
Quad R/S latch with 3-state outputs
Phase-locked loop
Monostable/astable multivibrator
8-channel analog multiplexer/demultiplexer
Dual 4-channel analog multiplexer/demultiplexer
Triple single-pole double-throw analog switch
14-stage ripple-carry binary counter/divider and oscillator
14-stage ripple-carry binary counter/divider and oscillator
Quad single-pole single-throw analog switch
Hex inverter
Quad 2-input EXCLUSIVE-OR gate
Quad 2-input OR gate
Triple 3-input AND gate
Quad 2-input EXCLUSIVE-NOR gate
Quad 2-input AND gate
Dual 4-input AND gate
8-stage shift-and-store register
Dual BCD counter
Dual binary counter
Dual monostable multivibrator
Dual precision monostable multivibrator
BCD to 7-segment latch/decoder/driver
1-of-4 decoder/demultiplexer
8-stage shift-and-store register LED driver
12-stage shift-and-store register LED driver
8-bit bidirectional multi-voltage level translator; open-drain; push-pull
4-bit dual-supply voltage translator; 3-state
4-bit dual supply translator; auto dir; 3-state
8-bit dual supply translator; auto dir; 3-state
4-bit dual supply translator; auto dir; 3-state
8-bit dual supply translator; auto dir; 3-state
0.5Ω Low Ohmic Dual DPDT Analog Switch
0.5Ω Low Ohmic SP8T Analog Switch
0.5Ω Low Ohmic Dual SP4T Analog Switch
0.5Ω Low Ohmic Triple SPDT Analog Switch

PackageOutlineVersion_description	PackageType_description	SalesItem_state
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SOT402-1	TSSOP14	RFS
SOT108-1	SO14	RFS
SOT402-1	TSSOP14	RFS
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SOT402-1	TSSOP14	RFS
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SOT402-1	TSSOP14	RFS
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SOT402-1	TSSOP14	RFS
SOT360-1	TSSOP20	RFS
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SOT403-1	TSSOP16	RFS
SOT360-1	TSSOP20	RFS
SOT108-1	SO14	RFS
SOT402-1	TSSOP14	RFS
SOT108-1	SO14	RFS

SOT402-1	TSSOP14	RFS
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SOT360-1	TSSOP20	RFS
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SOT109-1	SO16	RFS
SOT403-1	TSSOP16	RFS
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SOT402-1	TSSOP14	RFS
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SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT109-1	SO16	RFS
SOT403-1	TSSOP16	RFS

SOT360-1	TSSOP20	RFS
SOT108-1	SO14	RFS
SOT402-1	TSSOP14	RFS
SOT108-1	SO14	RFS
SOT402-1	TSSOP14	RFS
SOT360-1	TSSOP20	RFS
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SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
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SOT402-1	TSSOP14	RFS
SOT108-1	SO14	RFS
SOT402-1	TSSOP14	RFS
SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT108-1	SO14	RFS
SOT402-1	TSSOP14	RFS
SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT108-1	SO14	RFS
SOT402-1	TSSOP14	RFS

SOT403-1	TSSOP16	RFS
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SOT402-1	TSSOP14	RFS
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SOT403-1	TSSOP16	RFS
SOT109-1	SO16	RFS
SOT360-1	TSSOP20	RFS
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SOT109-1	SO16	RFS
SOT403-1	TSSOP16	RFS
SOT402-1	TSSOP14	RFS
SOT109-1	SO16	RFS

SOT403-1	TSSOP16	RFS
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SOT403-1	TSSOP16	RFS
SOT109-1	SO16	RFS
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SOT403-1	TSSOP16	RFS
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SOT109-1	SO16	RFS
SOT403-1	TSSOP16	RFS
SOT360-1	TSSOP20	RFS
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SOT109-1	SO16	RFS
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SOT403-1	TSSOP16	RFS
SOT360-1	TSSOP20	RFS
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SOT109-1	SO16	RFS
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SOT109-1	SO16	RFS
SOT403-1	TSSOP16	RFS
SOT109-1	SO16	RFS
SOT403-1	TSSOP16	RFS
SOT360-1	TSSOP20	RFS

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SOT403-1	TSSOP16	RFS
SOT108-1	SO14	RFS
SOT402-1	TSSOP14	RFS
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SOT403-1	TSSOP16	RFS
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SOT403-1	TSSOP16	RFS
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SOT109-1	SO16	RFS
SOT403-1	TSSOP16	RFS
SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT360-1	TSSOP20	RFS
SOT109-1	SO16	RFS
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Replacement_SalesItem_name

Replacement_ProductType_name

Replacement_BasicType_description

