16-bit transceiver with 30 Ω termination resistors; 3-stateRev. 3 — 29 January 2018Product data sheet

1 General description

The 74ALVT162245 is a high-performance BiCMOS product designed for V_{CC} operation at 2.5 V or 3.3 V with I/O compatibility up to 5 V.

This device is a 16-bit transceiver featuring non-inverting 3-state bus compatible outputs in both send and receive directions. The control function implementation minimizes external timing requirements. The device features an output enable input ($n\overline{OE}$) for easy cascading and a direction control input (nDIR) for direction control.

The 74ALVT162245 is designed with 30 Ω series resistance in both the HIGH-state and LOW-state of the output. This design reduces line noise in applications such as memory address drivers, clock drivers and bus transceivers and transmitters.

2 Features and benefits

- 16-bit bidirectional bus interface
- 3-State buffers
- 5V I/O compatible
- Output capability: +12 mA/–12 mA
- TTL input and output switching levels
- Input and output interface capability to systems at 5 V supply
- Bus-hold data inputs eliminate the need for external pull-up resistors to hold unused inputs
- · Live insertion/extraction permitted
- Outputs include series resistance of 30 Ω making external termination resistors unnecessary
- Power-up 3-State
- No bus current loading when output is tied to 5 V bus
- · Latch-up protection:
 - JESD17: exceeds 500 mA
- ESD protection:
 - MIL STD 883 method 3015: exceeds 2000 V
 - MM: exceeds 200 V

nexperia

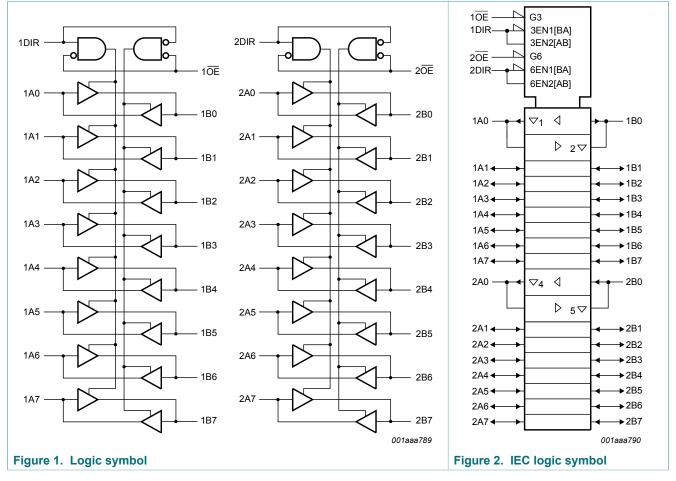
16-bit transceiver with 30 Ω termination resistors; 3-state

3 Ordering information

Table 1. Ordering information									
Type number	Package								
	Temperature range	Name	Description	Version					
74ALVT162245DL	-40 °C to +85 °C	SSOP48	plastic shrink small outline package; 48 leads; body width 7.5 mm	SOT370-1					
74ALVT162245DGG	-40 °C to +85 °C	TSSOP48	plastic thin shrink small outline package; 48 leads; body width 6.1 mm	SOT362-1					

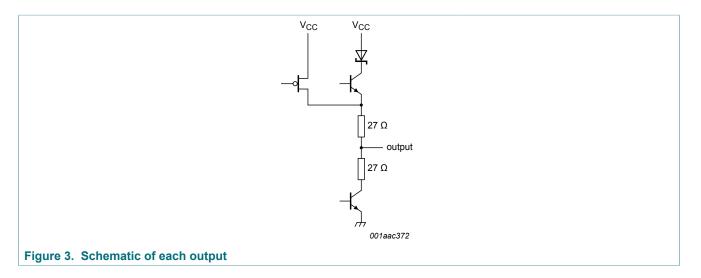
4 Functional diagram

Table 2.



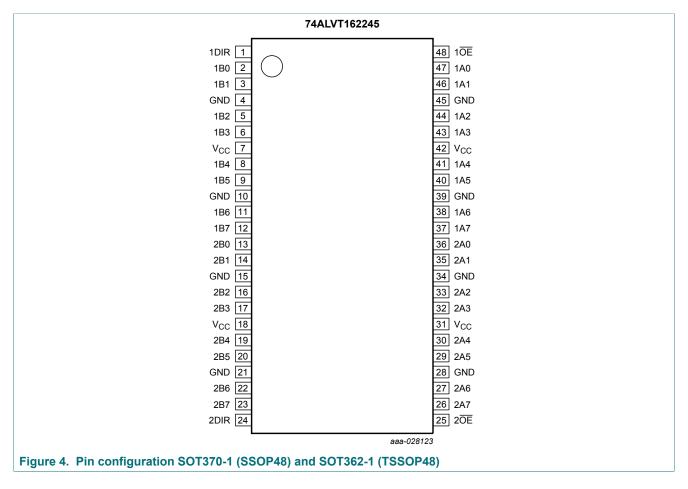
74ALVT162245

16-bit transceiver with 30 Ω termination resistors; 3-state



5 Pinning information

5.1 Pinning



16-bit transceiver with 30 Ω termination resistors; 3-state

5.2 Pin description

Table 3. Pin description								
Symbol	Pin	Description						
1DIR, 2DIR	1, 24	direction control input						
1A0, 1A1, 1A2, 1A3, 1A4, 1A5, 1A6, 1A7	47, 46, 44, 43, 41, 40, 38, 37	data input/output						
2A0, 2A1, 2A2, 2A3, 2A4, 2A5, 2A6, 2A7	36, 35, 33, 32, 30, 29, 27, 26	data input/output						
GND	4, 10, 15, 21, 28, 34, 39, 45	ground (0 V)						
1B0, 1B1, 1B2, 1B3, 1B4, 1B5, 1B6, 1B7	2, 3, 5, 6, 8, 9, 11, 12	data input/output						
2B0, 2B1, 2B2, 2B3, 2B4, 2B5, 2B6, 2B7	13, 14, 16, 17, 19, 20, 22, 23	data input/output						
10E, 20E	48, 25	output enable input (active-LOW)						
V _{CC}	7, 18, 31, 42	supply voltage						

6 Functional description

Table 4. Function table

H = HIGH voltage level; L = LOW voltage level; X = don't care; Z = high-impedance OFF-state.

Control		Input/output		
nOE nDIR		nAn	nBn	
L	L	output nAn = nBn	input	
L	Н	input	output nBn = nAn	
Н	X	Z	Z	

16-bit transceiver with 30 Ω termination resistors; 3-state

Limiting values 7

Table 5. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134). Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Max	Unit
V _{CC}	supply voltage		-0.5	+4.6	V
VI	input voltage	[1]	-0.5	+7.0	V
Vo	output voltage	output in OFF-state or HIGH-state [1]	-0.5	+7.0	V
I _{IK}	input clamping current	V ₁ < 0 V	-50	-	mA
I _{OK}	output clamping current	V _O < 0 V	-50	-	mA
lo	output current	output in LOW-state	-	128	mA
		output in HIGH-state	-64	-	mA
T _{stg}	storage temperature		-65	+150	°C
Tj	junction temperature	[2]	-	+150	°C

 The input and output negative voltage ratings may be exceeded if the input and output clamp current ratings are observed.
 The performance capability of a high-performance integrated circuit in conjunction with its thermal environment can create junction temperatures which are detrimental to reliability.

Recommended operating conditions 8

Table 6. Recommended operating conditions

Symbol	Parameter	Varameter Conditions $V_{CC} = 2.5 V \pm 0.2 V$		′ ± 0.2 V	0.2 V V _{CC} = 3.3 V ± 0.3 V		
			Min	Max	Min	Max	
V _{CC}	supply voltage		2.3	2.7	3.0	3.6	V
VI	input voltage		0	5.5	0	5.5	V
I _{OH}	HIGH-level output current		-	-8	-	-12	mA
I _{OL}	LOW-level output current		-	12	-	12	mA
Δt/ΔV	input transition rise and fall rate	outputs enabled	-	10	-	10	ns/V
T _{amb}	ambient temperature	free-air	-40	+85	-40	+85	°C

16-bit transceiver with 30 Ω termination resistors; 3-state

9 Static characteristics

Table 7. Static characteristics

At recommended operating conditions; $T_{amb} = -40$ °C to +85 °C; voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions		Min	Typ ^[1]	Max	Unit
V _{CC} = 2.5	5 V ± 0.2 V					1	
V _{IK}	input clamping voltage	V _{CC} = 2.3 V; I _{IK} = -18 mA		-	-0.85	-1.2	V
VIH	HIGH-level input voltage	V _{CC} = 2.5 V ± 0.2 V		1.7	-	-	V
V _{IL}	LOW-level input voltage	V _{CC} = 2.5 V ± 0.2 V		-	-	0.7	V
V _{OH}	HIGH-level output voltage	V _{CC} = 2.3 V; I _O = -8 mA		1.7	-	-	V
V _{OL}	LOW-level output voltage	V _{CC} = 2.3 V; I _O = 12 mA		-	0.6	0.7	V
l _l	input leakage current	all input pins	[2]				
		V_{CC} = 0 V or 2.7 V; V _I = 5.5 V		-	0.1	10	μA
		control pins					
		V_{CC} = 2.7 V; V_{I} = V_{CC} or GND		-	0.1	±1	μA
		I/O data pins	[2]				
		$V_{CC} = 2.7 \text{ V}; \text{ V}_{I} = V_{CC}$		-	0.1	1	μA
		V _{CC} = 2.7 V; V _I = 0 V		-	0.1	-5	μA
I _{OFF}	power-off leakage current	V_{CC} = 0 V; V _I or V _O = 0 V to 4.5 V		-	0.1	±100	μA
I _{BHL}	bus hold LOW current	data inputs; V_{CC} = 2.3 V; V_{I} = 0.7 V	[3]	-	90	-	μA
I _{BHH}	bus hold HIGH current	data inputs; V_{CC} = 2.3 V; V_{I} = 1.7 V	[3]	-	-75	-	μA
I _{EX}	external current	output in HIGH-state when $V_O > V_{CC}$; $V_O = 5.5 V$; $V_{CC} = 2.3 V$		-	20	125	μA
I _{O(pu/pd)}	power-up/power-down output current	$V_{CC} \le 1.2 \text{ V}; V_O = 0.5 \text{ V to } V_{CC};$ V _I = GND or V _{CC} ; nOE = don't care	[4]	-	40	100	μA
I _{CC}	supply current	V_{CC} = 2.7 V; V_{I} = GND or V_{CC} ; I_{O} = 0 A					
		outputs HIGH		-	0.04	0.1	mA
		outputs LOW		-	2.5	4.5	mA
		outputs disabled	[5]	-	0.04	0.1	mA
ΔI _{CC}	additional supply current	per input pin; V _{CC} = 2.3 V to 2.7 V; one input at V _{CC} - 0.6 V; other inputs at V _{CC} or GND	- 0.6 V;		0.05	0.4	mA
CI	input capacitance	nDIR and n \overline{OE} ; V _I = 0 V or V _{CC}		-	3	-	pF
C _{I/O}	input/output capacitance	$V_{I/O} = 0 V \text{ or } V_{CC}$		-	9	-	pF

74ALVT162245

16-bit transceiver with 30 Ω termination resistors; 3-state

Symbol	Parameter	Conditions		Min	Typ ^[1]	Max	Unit
V _{CC} = 3.3	3 V ± 0.3 V						
V _{IK}	input clamping voltage	V _{CC} = 3.0 V; I _{IK} = -18 mA		-	-0.85	-1.2	V
V _{IH}	HIGH-level input voltage	V _{CC} = 3.3 V ± 0.3 V		2.0	-	-	V
VIL	LOW-level input voltage	V _{CC} = 3.3 V ± 0.3 V		-	-	0.8	V
V _{OH}	HIGH-level output voltage	V _{CC} = 3.0 V; I _O = -12 mA		2.0	2.3	-	V
V _{OL}	LOW-level output voltage	V _{CC} = 3.0 V; I _O = 12 mA		-	0.6	0.8	V
li –	input leakage current	all input pins	[2]				
		V _{CC} = 0 V or 3.6 V; V _I = 5.5 V		-	0.1	10	μA
		control pins					
		V_{CC} = 3.6 V; V_{I} = V_{CC} or GND		-	0.1	±1	μA
		I/O data pins	[2]				
		$V_{CC} = 3.6 \text{ V}; \text{ V}_{I} = V_{CC}$		-	0.5	1	μA
		V _{CC} = 3.6 V; V _I = 0 V		-	0.1	-5	μA
I _{OFF}	power-off leakage current	V_{CC} = 0 V; V ₁ or V ₀ = 0 V to 4.5 V		-	0.1	±100	μA
I _{BHL}	bus hold LOW current	data inputs; V_{CC} = 3 V; V_{I} = 0.8 V		75	130	-	μA
I _{BHH}	bus hold HIGH current	data inputs; V_{CC} = 3 V; V_{I} = 2.0 V		-75	-140	-	μA
I _{BHLO}	bus hold LOW overdrive current	data inputs; V_{CC} = 3.6 V; V _I = 0 V to 3.6 V	[7]	500	-	-	μA
I _{BHHO}	bus hold HIGH overdrive current	data inputs; V_{CC} = 3.6 V; V _I = 0 V to 3.6 V	[7]	-500	-	-	μA
I _{EX}	external current	output in HIGH-state when $V_O > V_{CC}$; $V_O = 5.5 V$; $V_{CC} = 3.0 V$		-	50	125	μA
I _{O(pu/pd)}	power-up/power-down output current	$V_{CC} \le 1.2 \text{ V}; V_O = 0.5 \text{ V to } V_{CC};$ V _I = GND or V _{CC} ; nOE = don't care	[8]	-	40	±100	μA
I _{CC}	supply current	V_{CC} = 3.6 V; V _I = GND or V _{CC} ; I _O = 0 A					
		outputs HIGH		-	0.07	0.1	mA
		outputs LOW		-	3.5	5	mA
		outputs disabled	[5]	-	0.07	0.1	mA
∆l _{CC}	additional supply current	per input pin; V_{CC} = 3 V to 3.6 V; one input at V_{CC} - 0.6 V; other inputs at V_{CC} or GND	[6]	-	0.04	0.4	mA
CI	input capacitance	nDIR and $n\overline{OE}$; V _I = 0 V or V _{CC}		-	3	-	pF
C _{I/O}	input/output capacitance	$V_{I/O} = 0 V \text{ or } V_{CC}$		-	9	-	pF
		I. Contraction of the second se			1	1	1

[1] Typical values for V_{CC} = 2.3 V to 2.7 V are measured at V_{CC} = 2.5 V and T_{amb} = 25 °C.

[1] Typical values for V_{CC} = 2.5 V to 2.7 V are measured at V_{CC} = 2.5 V and T_{amb} = 25 °C.
[2] Unused pins at V_{CC} or GND.
[3] Not guaranteed.
[4] This parameter is valid for any V_{CC} between 0 V and 1.2 V with a transition time of up to 10 ms.

From V_{CC} = 1.2 V to V_{CC} = 2.5 V ± 0.2 V a transition time of 100 µs is permitted. This parameter is valid for T_{amb} = 25 °C only.

[5] I_{CC} with outputs disabled is measured with outputs pulled to V_{CC} or GND.

[6] This is the increase in supply current for each input at the specified voltage level other than V_{CC} or GND.

[7] This is the bus hold overdrive current required to force the input to the opposite logic state. [8] This parameter is valid for any V_{CC} between 0 V and 1.2 V with a transition time of up to 10 ms.

From V_{CC} = 1.2 V to V_{CC} = 3.0 V \pm 0.3 V a transition time of 100 µs is permitted. This parameter is valid for T_{amb} = 25 °C only.

74ALVT162245 **Product data sheet** © Nexperia B.V. 2018. All rights reserved.

16-bit transceiver with 30 Ω termination resistors; 3-state

10 Dynamic characteristics

Table 8. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V); $T_{amb} = -40$ °C to +85 °C; for test circuit see Figure 7.

Symbol	Parameter	Conditions	Min	Typ ^[1]	Max	Unit
V _{CC} = 2.5	5 V ± 0.2 V			1	1	
t _{PLH}	LOW to HIGH propagation delay	nAn to nBn or nBn to nAn; see <u>Figure 5</u>	1.5	2.9	5.3	ns
t _{PHL}	HIGH to LOW propagation delay	nAn to nBn or nBn to nAn; see Figure 5	1.5	2.4	4.7	ns
t _{PZH}	OFF-state to HIGH propagation delay	nOE to nAn or nOE to nBn; see Figure 6	1.5	4.3	6.3	ns
t _{PZL}	OFF-state to LOW propagation delay	nOE to nAn or nOE to nBn; see Figure 6	1.5	3.1	4.6	ns
t _{PHZ}	HIGH to OFF-state propagation delay	nOE to nAn or nOE to nBn; see Figure 6	1.5	4.2	6.2	ns
t _{PLZ}	LOW to OFF-state propagation delay	nOE to nAn or nOE to nBn; see Figure 6	1.5	3.3	5.1	ns
V _{CC} = 3.3	3 V ± 0.3 V					
t _{PLH}	LOW to HIGH propagation delay	nAn to nBn or nBn to nAn; see <u>Figure 5</u>	0.5	2.3	3.6	ns
t _{PHL}	HIGH to LOW propagation delay	nAn to nBn or nBn to nAn; see <u>Figure 5</u>	0.5	2.0	3.1	ns
t _{PZH}	OFF-state to HIGH propagation delay	nOE to nAn or nOE to nBn; see Figure 6	1.0	3.0	5.0	ns
t _{PZL}	OFF-state to LOW propagation delay	nOE to nAn or nOE to nBn; see Figure 6	1.0	2.6	3.9	ns
t _{PHZ}	HIGH to OFF-state propagation delay	nOE to nAn or nOE to nBn; see Figure 6	1.0	3.6	5.2	ns
t _{PLZ}	LOW to OFF-state propagation delay	nOE to nAn or nOE to nBn; see Figure 6	1.0	3.0	4.6	ns

[1] Typical values for V_{CC} = 2.3 V to 2.7 V are measured at V_{CC} = 2.5 V and T_{amb} = 25 °C. Typical values for V_{CC} = 3.0 V to 3.6 V are measured at V_{CC} = 3.3 V and T_{amb} = 25 °C.

16-bit transceiver with 30 Ω termination resistors; 3-state

10.1 Waveforms and test circuit

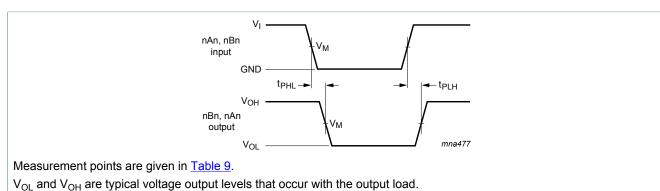


Figure 5. Input (nAn or nBn) to output (nBn or nAn) propagation delays

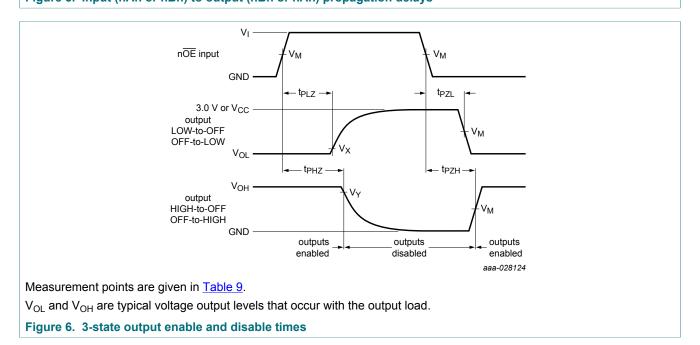


Table 9. Measurement points

V _{cc}	Input		Output		
	VI	V _M	V _M	Vx	V _Y
$V_{CC} \le 2.7 V$	V _{CC}	0.5 x V _{CC}	0.5 x V _{CC}	V _{OL} + 0.1 V	V _{OH} - 0.1 V
V _{CC} ≥ 3.0 V	3.0 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V

74ALVT162245

16-bit transceiver with 30 Ω termination resistors; 3-state

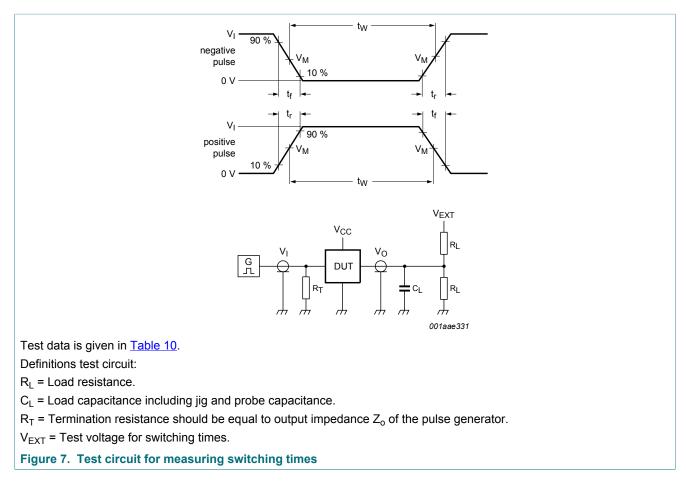
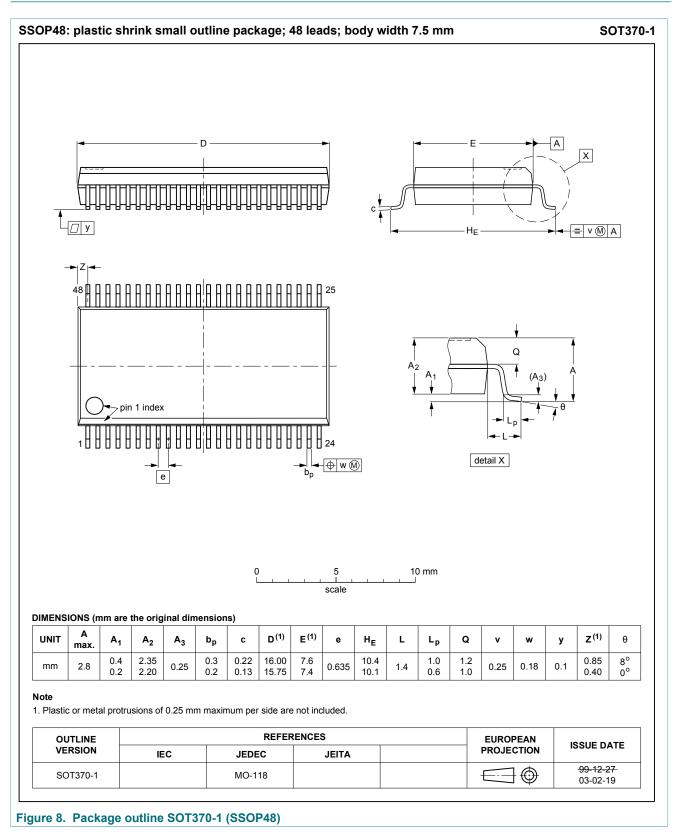


Table 10. Test data

Input Load						V _{EXT}		
VI	f _i	tw	t _r , t _f	CL	RL	t _{PHZ} , t _{PZH}	t _{PLZ} , t _{PZL}	t _{PLH} , t _{PHL}
3.0 V or V_{CC} whichever is less	≤ 10 MHz	500 ns	≤ 2.5 ns	50 pF	500 Ω	GND	6 V or V _{CC} x 2	open

16-bit transceiver with 30 Ω termination resistors; 3-state

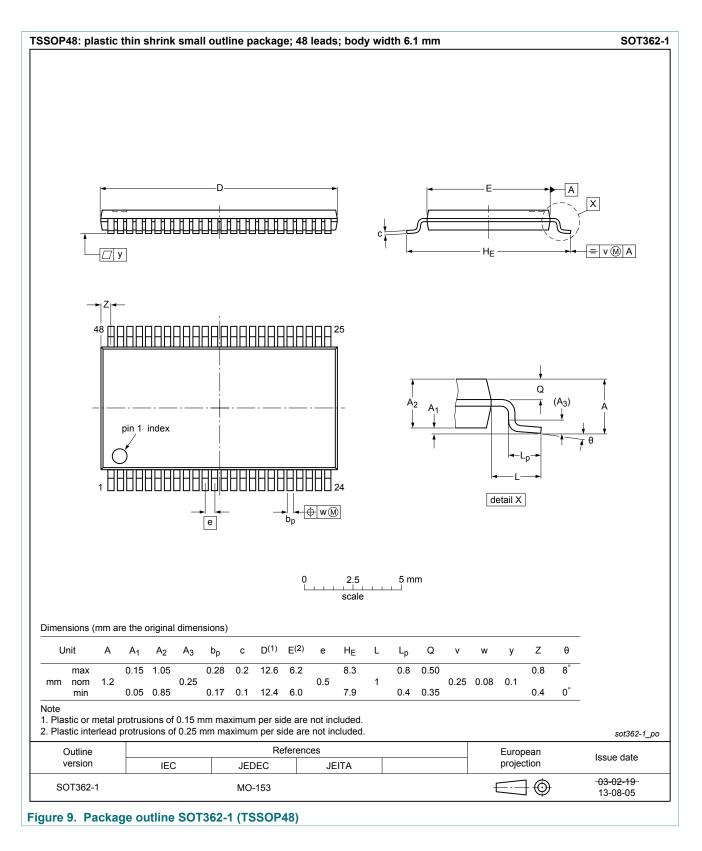
11 Package outline



74ALVT162245 Product data sheet

74ALVT162245

16-bit transceiver with 30 Ω termination resistors; 3-state



74ALVT162245 Product data sheet

16-bit transceiver with 30 Ω termination resistors; 3-state

12 Abbreviations

Table 11. Abbreviations					
Acronym	Description				
BiCMOS	Bipolar Complementary Metal Oxide Semiconductor				
DUT	Device Under Test				
ESD	ElectroStatic Discharge				
MIL	Military				
ММ	Machine Model				
TTL	Transistor-Transistor Logic				

13 Revision history

Table 12. Revision history								
Document ID	Release date	Data sheet status	Change notice	Supersedes				
74ALVT162245 v.3	20180129	Product data sheet	-	74ALVT162245 v.2				
Modifications:	Nexperia.	nis data sheet has been redesig e been adapted to the new con						
74ALVT162245 v.2	19980213	Product specification	-	74ALVT162245 v.1				
74ALVT162245 v.1	19960305	Product specification	-	-				

16-bit transceiver with 30 Ω termination resistors; 3-state

14 Legal information

14.1 Data sheet status

Document status ^{[1][2]}	Product status ^[3]	Definition	
Objective [short] data sheet	Development	This document contains data from the objective specification for product development.	
Preliminary [short] data sheet	Qualification	This document contains data from the preliminary specification.	
Product [short] data sheet	Production	This document contains the product specification.	

Please consult the most recently issued document before initiating or completing a design. [1]

The term 'short data sheet' is explained in section "Definitions". [2] [3]

The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL http://www.nexperia.com.

14.2 Definitions

Draft — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. Nexperia does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

Short data sheet — A short data sheet is an extract from a full data sheet with the same product type number(s) and title. A short data sheet is intended for quick reference only and should not be relied upon to contain detailed and full information. For detailed and full information see the relevant full data sheet, which is available on request via the local Nexperia sales office. In case of any inconsistency or conflict with the short data sheet, the full data sheet shall prevail.

Product specification — The information and data provided in a Product data sheet shall define the specification of the product as agreed between Nexperia and its customer, unless Nexperia and customer have explicitly agreed otherwise in writing. In no event however, shall an agreement be valid in which the Nexperia product is deemed to offer functions and qualities beyond those described in the Product data sheet.

14.3 Disclaimers

Limited warranty and liability - Information in this document is believed to be accurate and reliable. However, Nexperia does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. Nexperia takes no responsibility for the content in this document if provided by an information source outside of Nexperia. In no event shall Nexperia be liable for any indirect, incidental, punitive, special or consequential damages (including - without limitation lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory. Notwithstanding any damages that customer might incur for any reason whatsoever, Nexperia's aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms and conditions of commercial sale of Nexperia

Right to make changes - Nexperia reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

Suitability for use - Nexperia products are not designed, authorized or warranted to be suitable for use in life support, life-critical or safety-critical systems or equipment, nor in applications where failure or malfunction of an Nexperia product can reasonably be expected to result in personal injury, death or severe property or environmental damage. Nexperia and its suppliers accept no liability for inclusion and/or use of Nexperia products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

Applications — Applications that are described herein for any of these products are for illustrative purposes only. Nexperia makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification. Customers are responsible for the design and operation of their applications and products using Nexperia products, and Nexperia accepts no liability for any assistance with applications or customer product design. It is customer's sole responsibility to determine whether the Nexperia product is suitable and fit for the customer's applications and products planned, as well as for the planned application and use of customer's third party customer(s). Customers should provide appropriate design and operating safeguards to minimize the risks associated with their applications and products. Nexperia does not accept any liability related to any default, damage, costs or problem which is based on any weakness or default in the customer's applications or products, or the application or use by customer's third party customer(s). Customer is responsible for doing all necessary testing for the customer's applications and products using Nexperia products in order to avoid a default of the applications and the products or of the application or use by customer's third party customer(s). Nexperia does not accept any liability in this respect.

Limiting values — Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

Terms and conditions of commercial sale - Nexperia products are sold subject to the general terms and conditions of commercial sale, as published at http://www.nexperia.com/profile/terms, unless otherwise agreed in a valid written individual agreement. In case an individual agreement is concluded only the terms and conditions of the respective agreement shall apply. Nexperia hereby expressly objects to applying the customer's general terms and conditions with regard to the purchase of Nexperia products by customer

No offer to sell or license - Nothing in this document may be interpreted or construed as an offer to sell products that is open for acceptance or the grant, conveyance or implication of any license under any copyrights, patents or other industrial or intellectual property rights.

Export control — This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from competent authorities.

74ALVT162245 **Product data sheet**

16-bit transceiver with 30 Ω termination resistors; 3-state

Non-automotive qualified products — Unless this data sheet expressly states that this specific Nexperia product is automotive qualified, the product is not suitable for automotive use. It is neither qualified not tested in accordance with automotive testing or application requirements. Nexperia accepts no liability for inclusion and/or use of non-automotive qualified products in automotive equipment or applications. In the event that customer uses the product for design-in and use in automotive applications to automotive specifications and standards, customer (a) shall use the product without Nexperia's warranty of the product for such automotive applications, use and specifications beyond Nexperia's specifications such use shall be solely at customer's own risk, and (c) customer fully indemnifies Nexperia for any liability, damages or failed product claims resulting from customer

design and use of the product for automotive applications beyond Nexperia's standard warranty and Nexperia's product specifications.

Translations — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

14.4 Trademarks

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

74ALVT162245

16-bit transceiver with 30 Ω termination resistors; 3-state

Contents

1	General description	1
2	Features and benefits	1
3	Ordering information	2
4	Functional diagram	2
5	Pinning information	3
5.1	Pinning	
5.2	Pin description	4
6	Functional description	
7	Limiting values	
8	Recommended operating conditions	5
9	Static characteristics	6
10	Dynamic characteristics	8
10.1	Waveforms and test circuit	9
11	Package outline	
12	Abbreviations	13
13	Revision history	13
14	Legal information	14

Please be aware that important notices concerning this document and the product(s) described herein, have been included in section 'Legal information'.

© Nexperia B.V. 2018.

All rights reserved.

For more information, please visit: http://www.nexperia.com For sales office addresses, please send an email to: salesaddresses@nexperia.com

Date of release: 29 January 2018 Document identifier: 74ALVT162245



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный) **Факс:** 8 (812) 320-02-42 **Электронная почта:** <u>org@eplast1.ru</u> **Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.