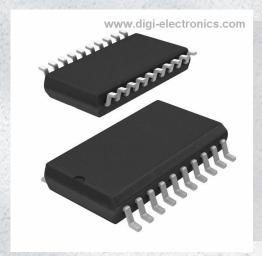


74LV245D,112 Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number 74LV245D,112-DG

Manufacturer Nexperia USA Inc.

Manufacturer Product Number 74LV245D,112

Description IC TXRX NON-INVERT 5.5V 20SO

Detailed Description Transceiver, Non-Inverting 1 Element 8 Bit per Elem

ent 3-State Output 20-SO



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
74LV245D,112	Nexperia USA Inc.
Series:	Product Status:
74LV	Obsolete
Logic Type:	Number of Elements:
Transceiver, Non-Inverting	1
Number of Bits per Element:	Input Type:
8	
Output Type:	Current - Output High, Low:
3-State	16mA, 16mA
Voltage - Supply:	Operating Temperature:
1V ~ 5.5V	-40°C ~ 125°C (TA)
Mounting Type:	Package / Case:
Surface Mount	20-SOIC (0.295", 7.50mm Width)
Supplier Device Package:	Base Product Number:
20-50	74LV245

Environmental & Export classification

8542.39.0001

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	

74LV245

Octal bus transceiver; 3-state

Rev. 6 — 4 July 2024

Product data sheet

1. General description

The 74LV245 is an 8-bit transceiver with 3-state outputs. The device features an output enable (\overline{OE}) and send/receive (DIR) for direction control. A HIGH on \overline{OE} causes the outputs to assume a high-impedance OFF-state. Inputs include clamp diodes. This enables the use of current limiting resistors to interface inputs to voltages in excess V_{CC} .

2. Features and benefits

- Wide supply voltage range from 1.0 V to 5.5 V
- CMOS low power dissipation
- · Latch-up performance exceeds 100 mA per JESD 78 Class II Level B
- Optimized for low voltage applications: 1.0 V to 3.6 V
- Accepts TTL input levels between V_{CC} = 2.7 V and V_{CC} = 3.6 V
- Typical output ground bounce < 0.8 V at V_{CC} = 3.3 V and T_{amb} = 25 °C
- Typical HIGH-level output voltage (V_{OH}) undershoot: > 2 V at V_{CC} = 3.3 V and T_{amb} = 25 °C
- Complies with JEDEC standards:
 - JESD8-7 (1.65 V to 1.95 V)
 - JESD8-5 (2.3 V to 2.7 V)
 - JESD8C (2.7 V to 3.6 V)
 - JESD36 (4.5 V to 5.5 V)
- ESD protection:
 - HBM: ANSI/ESDA/JEDEC JS-001 class 2 exceeds 2000 V
 - CDM: ANSI/ESDA/JEDEC JS-002 class C3 exceeds 1000 V
- Specified from -40 °C to +85 °C and from -40 °C to +125 °C



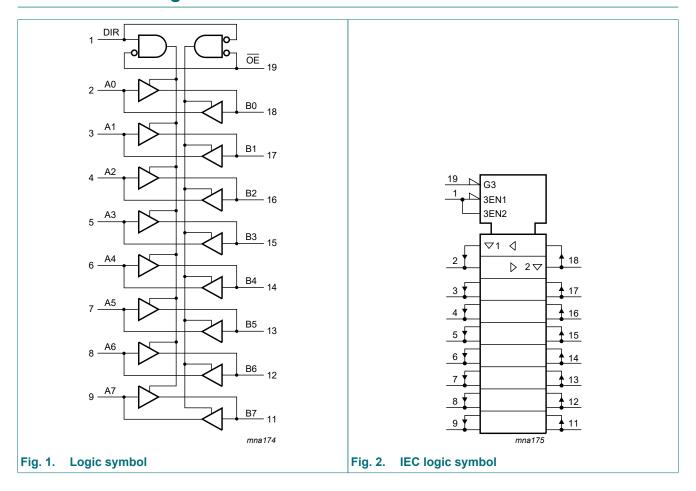
Octal bus transceiver; 3-state

3. Ordering information

Table 1. Ordering information

Type number	Package										
	Temperature range	Name	Description	Version							
74LV245D	-40 °C to +125 °C	SO20	plastic small outline package; 20 leads; body width 7.5 mm	SOT163-1							
74LV245PW	-40 °C to +125 °C	TSSOP20	plastic thin shrink small outline package; 20 leads; body width 4.4 mm	SOT360-1							

4. Functional diagram

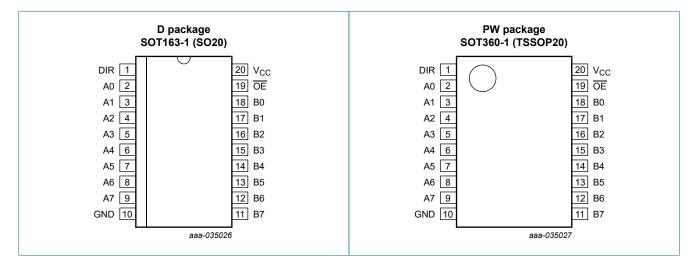


2/13

Octal bus transceiver; 3-state

5. Pinning information

5.1. Pinning



5.2. Pin description

Table 2. Pin description

Symbol	Pin	Description
DIR	1	direction control
A0, A1, A2, A3, A4, A5, A6, A7	2, 3, 4, 5, 6, 7, 8, 9	data input/output
GND	10	ground (0 V)
B0, B1, B2, B3, B4, B5, B6, B7	18, 17, 16, 15, 14, 13, 12, 11	data input/output
ŌĒ	19	output enable input (active LOW)
V _{CC}	20	supply voltage

6. Functional description

Table 3. Function selection

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

Input		Output/input					
ŌĒ	DIR	Bn					
L	L	A = B	input				
L	Н	input	B = A				
Н	X	Z	Z				

Octal bus transceiver; 3-state

7. Limiting values

Table 4. 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	+7.0	V
I _{IK}	input clamping current	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$ [1]	-	±20	mA
I _{OK}	output clamping current	$V_O < -0.5 \text{ V or } V_O > V_{CC} + 0.5 \text{ V}$ [1]	-	±50	mA
Io	output current	$V_O = -0.5 \text{ V to } (V_{CC} + 0.5 \text{ V})$	-	±35	mA
I _{CC}	supply current		-	70	mA
I _{GND}	ground current		-70	-	mA
T _{stg}	storage temperature		-65	+150	°C
P _{tot}	total power dissipation	T_{amb} = -40 °C to +125 °C [2]	-	500	mW

^[1] The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

8. Recommended operating conditions

Table 5. Recommended operating conditions

Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
V _{CC}	supply voltage	[1]	1.0	3.3	5.5	V
VI	input voltage		0	-	V _{CC}	V
Vo	output voltage		0	-	V _{CC}	V
T _{amb}	ambient temperature		-40	+25	+125	°C
Δt/ΔV	input transition rise and fall rate	V _{CC} = 1.0 V to 2.0 V	-	-	500	ns/V
		V _{CC} = 2.0 V to 2.7 V	-	-	200	ns/V
		V _{CC} = 2.7 V to 3.6 V	-	-	100	ns/V
		V _{CC} = 3.6 V to 5.5 V	-	-	50	ns/V

^[1] The static characteristics are guaranteed from V_{CC} = 1.2 V to V_{CC} = 5.5 V, but LV devices are guaranteed to function down to V_{CC} = 1.0 V (with input levels GND or V_{CC}).

^[2] For SOT163-1 (SO20) package: P_{tot} derates linearly with 12.3 mW/K above 109 °C. For SOT360-1 (TSSOP20) package: P_{tot} derates linearly with 10.0 mW/K above 100 °C.

Octal bus transceiver; 3-state

9. Static characteristics

Table 6. Static characteristics

At recommended operating conditions. Voltages are referenced to GND (ground = 0 V).

Symbol	Parameter	Conditions	-40	°C to +8	5 °C	-40 °C to	+125 °C	Unit
			Min	Typ[1]	Max	Min	Max	
V _{IH}	HIGH-level	V _{CC} = 1.2 V	0.9	-	-	0.9	-	V
	input voltage	V _{CC} = 2.0 V	1.4	-	-	1.4	-	V
		V _{CC} = 2.7 V to 3.6 V	2.0	-	-	2.0	-	V
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}	-	-	0.7 × V _{CC}	-	V
V _{IL}	LOW-level	V _{CC} = 1.2 V	-	-	0.3	-	0.3	V
	input voltage	V _{CC} = 2.0 V	-	-	0.6	-	0.6	V
		V _{CC} = 2.7 V to 3.6 V	-	-	0.8	-	0.8	V
		V _{CC} = 4.5 V to 5.5 V	-	-	0.3 × V _{CC}	-	0.3 × V _{CC}	V
V _{OH}	HIGH-	V _I = V _{IH} or V _{IL}						
	level output	I _O = -100 μA; V _{CC} = 1.2 V	-	1.2	-	-	-	V
	voltage	I_{O} = -100 μ A; V_{CC} = 2.0 V	1.8	2.0	-	1.8	-	V
		I _O = -100 μA; V _{CC} = 2.7 V	2.5	2.7	-	2.5	-	V
		I _O = -100 μA; V _{CC} = 3.0 V	2.8	3.0	-	2.8	-	V
		I _O = -100 μA; V _{CC} = 4.5 V	4.3	4.5	-	4.3	-	V
		I_{O} = -8 mA; V_{CC} = 3.0 V	2.4	2.82	-	2.2	-	V
		$I_O = -16 \text{ mA}; V_{CC} = 4.5 \text{ V}$	3.6	4.2	-	3.5	-	V
V _{OL}	LOW-level output voltage	V _I = V _{IH} or V _{IL}						
		I _O = 100 μA; V _{CC} = 1.2 V	-	0	-	-	-	V
		I_{O} = 100 μ A; V_{CC} = 2.0 V	-	0	0.2	-	0.2	V
		I_{O} = 100 μ A; V_{CC} = 2.7 V	-	0	0.2	-	0.2	V
		I _O = 100 μA; V _{CC} = 3.0 V	-	0	0.2	-	0.2	V
		I _O = 100 μA; V _{CC} = 4.5 V	-	0	0.2	-	0.2	V
		$I_O = 8 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	0.25	0.40	-	0.50	V
		I _O = 16 mA; V _{CC} = 4.5 V	-	0.35	0.55	-	0.65	V
l _l	input leakage current	$V_I = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	1.0	-	1.0	μΑ
l _{oz}	OFF-state output current	$V_I = V_{IH}$ or V_{IL} ; $V_O = V_{CC}$ or GND; $V_{CC} = 5.5 \text{ V}$	-	-	5	-	10	μA
I _{CC}	supply current	$V_I = V_{CC}$ or GND; $I_O = 0$ A; $V_{CC} = 5.5 \text{ V}$	-	-	20	-	160	μA
Δl _{CC}	additional supply current	per input; $V_I = V_{CC} - 0.6 \text{ V}$; $V_{CC} = 2.7 \text{ V}$ to 3.6 V	-	-	500	-	850	μА
Cı	input capacitance		-	3.5	-	-	-	pF
C _{I/O}	input/output capacitance		-	10	-	-	-	pF

^[1] Typical values are measured at T_{amb} = 25 °C.

Octal bus transceiver; 3-state

10. Dynamic characteristics

Table 7. Dynamic characteristics

Voltages are referenced to GND (ground = 0 V). For test circuit see Fig. 5.

Symbol	Parameter	Conditions		-40	°C to +85	5 °C	-40 °C to	o +125 °C	Unit
			Min	Typ[1]	Max	Min	Max		
t _{pd}	propagation	An, Bn to Bn, An; see Fig. 3	[2]						
	delay	V _{CC} = 1.2 V		-	45	28	-	-	ns
		V _{CC} = 2.0 V		-	15	28	-	34	ns
		V _{CC} = 2.7 V		-	11	19	-	24	ns
		V _{CC} = 3.0 V to 3.6 V; C _L = 15 pF	[3]	-	7	-	-	-	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	9	16	-	20	ns
	V _{CC} = 4.5 V to 5.5 V		[3]	-	8	11	-	14	ns
t _{en}	enable time	OE to An, Bn; see Fig. 4							
		V _{CC} = 1.2 V		-	55	-	-	-	ns
		V _{CC} = 2.0 V		-	19	31	-	39	ns
		V _{CC} = 2.7 V		-	14	23	-	29	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	10	18	-	23	ns
		V _{CC} = 4.5 V to 5.5 V	[3]	-	8.5	14	-	18	ns
t _{dis}	disable time	OE to An, Bn; see Fig. 4	[2]						
		V _{CC} = 1.2 V		-	65	-	-	-	ns
		V _{CC} = 2.0 V		-	24	32	-	39	ns
		V _{CC} = 2.7 V		-	18	24	-	29	ns
		V _{CC} = 3.0 V to 3.6 V	[3]	-	14	20	-	24	ns
		V _{CC} = 4.5 V to 5.5 V	[3]	-	11.5	16	-	19	ns
C _{PD}	power dissipation capacitance	C_L = 50 pF; f_i = 1 MHz; V_I = GND to V_{CC} ; V_{CC} = 3.3 V	[4]	-	40	-	-	-	pF

- All typical values are measured at T_{amb} = 25 °C.
- t_{pd} is the same as t_{PLH} and t_{PHL}.

 t_{en} is the same as t_{PZL} and t_{PZH} .

- t_{dis} is the same as t_{PLZ} and t_{PHZ} . Typical values are measured at nominal supply voltage (V_{CC} = 3.3 V and V_{CC} = 5.0 V).
- C_{PD} is used to determine the dynamic power dissipation (P_D in μ W). $P_D = C_{PD} \times V_{CC}^2 \times f_i \times N + \Sigma (C_L \times V_{CC}^2 \times f_o)$ where:

 f_i = input frequency in MHz;

f_o = output frequency in MHz;

C_L = output load capacitance in pF;

V_{CC} = supply voltage in V;

N = number of inputs switching;

 $\Sigma(C_L \times V_{CC}^2 \times f_o)$ = sum of the outputs.

Octal bus transceiver; 3-state

10.1. Waveforms and test circuit

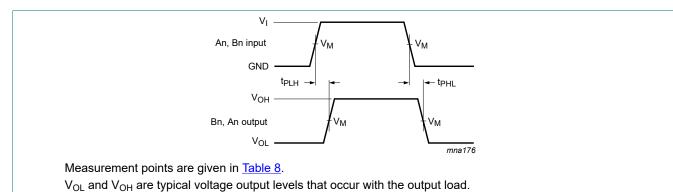


Fig. 3. The input (An, Bn) to output (Bn, An) propagation delays

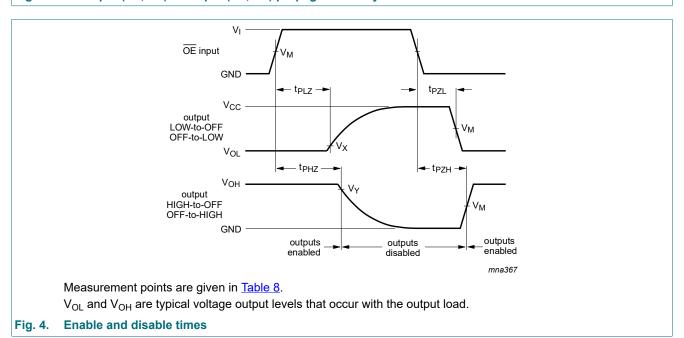
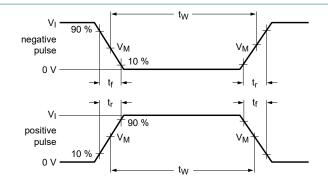
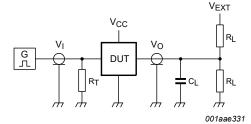


Table 8. Measurement points

Supply voltage	Input	Output							
V _{CC}	V _M	V _M	V _X	V _Y					
< 2.7 V	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.1V _{CC}	V _{OH} - 0.1V _{CC}					
2.7 V to 3.6 V	1.5 V	1.5 V	V _{OL} + 0.3 V	V _{OH} - 0.3 V					
≥ 4.5 V	0.5 × V _{CC}	0.5 × V _{CC}	V _{OL} + 0.1V _{CC}	V _{OH} - 0.1V _{CC}					

Octal bus transceiver; 3-state





Test data is given in Table 9.

Definitions for test circuit:

R_L = Load resistance;

C_L = Load capacitance including jig and probe capacitance;

R_T = Termination resistance should be equal to output impedance Z_o of the pulse generator;

 V_{EXT} = External voltage for measuring switching times.

Fig. 5. Test circuit for measuring switching times

Table 9. Test data

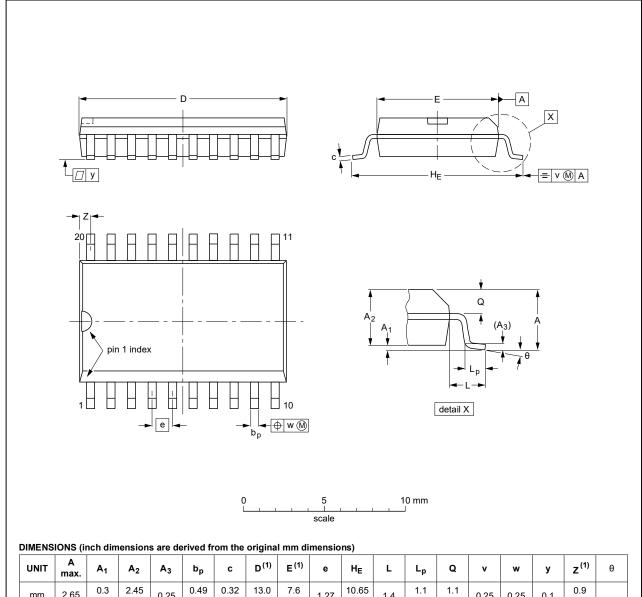
Supply voltage	oltage Input				V _{EXT}				
V _{CC}	V _I	t _r , t _f	CL	R _L	t _{PHL} , t _{PLH}	t _{PZH} , t _{PHZ}	t _{PZL} , t _{PLZ}		
< 2.7 V	V _{CC}	≤ 2.5 ns	50 pF	1 kΩ	open	GND	2 × V _{CC}		
2.7 V to 3.6 V	2.7 V	≤ 2.5 ns	15 pF, 50 pF	1 kΩ	open	GND	2 × V _{CC}		
≥ 4.5 V	V _{CC}	≤ 2.5 ns	50 pF	1 kΩ	open	GND	2 × V _{CC}		

Octal bus transceiver; 3-state

11. Package outline

SO20: plastic small outline package; 20 leads; body width 7.5 mm

SOT163-1



U	NIT	A max.	A ₁	A ₂	A ₃	bp	С	D ⁽¹⁾	E ⁽¹⁾	е	HE	L	Lp	Q	v	w	у	z ⁽¹⁾	θ
r	nm	2.65	0.3 0.1	2.45 2.25	0.25	0.49 0.36	0.32 0.23	13.0 12.6	7.6 7.4	1.27	10.65 10.00	1.4	1.1 0.4	1.1 1.0	0.25	0.25	0.1	0.9 0.4	8°
ine	ches	0.1	0.012 0.004	0.096 0.089	0.01	0.019 0.014	0.013 0.009	0.51 0.49	0.30 0.29	0.05	0.419 0.394	0.055	0.043 0.016	0.043 0.039	0.01	0.01	0.004	0.035 0.016	0°

Note

1. Plastic or metal protrusions of 0.15 mm (0.006 inch) maximum per side are not included.

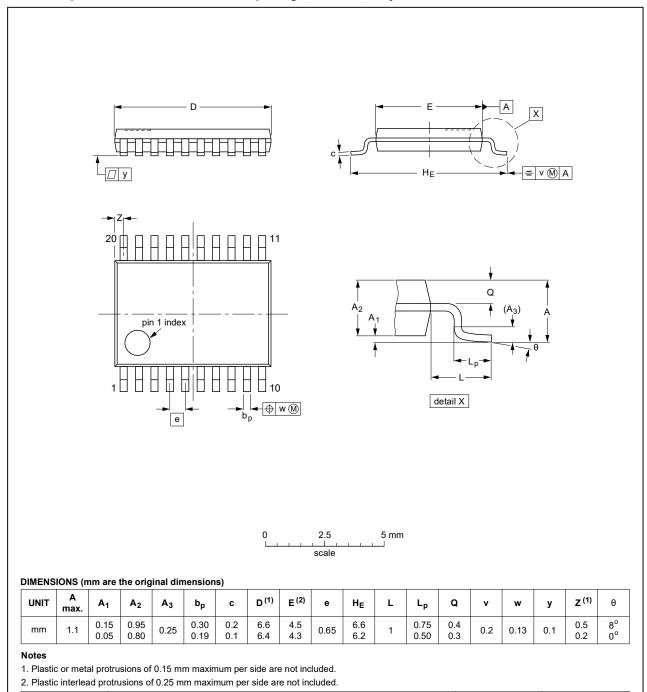
OUTLINE	REFERENCES			EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	JEITA		PROJECTION	1330E DATE
SOT163-1	075E04	MS-013				99-12-27 03-02-19

Fig. 6. Package outline SOT163-1 (SO20)

Octal bus transceiver; 3-state

TSSOP20: plastic thin shrink small outline package; 20 leads; body width 4.4 mm

SOT360-1



OUTLINE	REFERENCES			EUROPEAN	ISSUE DATE	
VERSION	IEC	JEDEC	JEITA		PROJECTION	ISSUE DATE
SOT360-1		MO-153				99-12-27 03-02-19

Fig. 7. Package outline SOT360-1 (TSSOP20)

Octal bus transceiver; 3-state

12. Abbreviations

Table 10. Abbreviations

Acronym	Description
ANSI	American National Standards Institute
CDM	Charged Device Model
CMOS	Complementary Metal Oxide Semiconductor
DUT	Device Under Test
ESD	ElectroStatic Discharge
ESDA	ElectroStatic Discharge Association
НВМ	Human Body Model
JEDEC	Joint Electron Device Engineering Council
TTL	Transistor-Transistor Logic

13. Revision history

Table 11. Revision history

Document ID	Release date	Data sheet status	Change notice	Supersedes	
74LV245 v.6	20240704	Product data sheet	-	74LV245 v.5	
Modifications:	<u>Section 2</u> : ESD specification updated according to the latest JEDEC standard.				
74LV245 v.5	20210928	Product data sheet	-	74LV245 v.4	
Modifications:	 The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia. Legal texts have been adapted to the new company name where appropriate. Section 1 and Section 2 updated. Section 7: Derating values for P_{tot} total power dissipation updated. Type number 74LV245DB (SOT339-1/SSOP20) removed. 				
74LV245 v.4	20160309	Product data sheet	-	74LV245 v.3	
Modifications:	Type number 74LV245N (SOT146-1) removed.				
74LV245 v.3	20090415	Product data sheet	-	74LV245 v.2	
Modifications:	 The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors. Legal texts have been adapted to the new company name when appropriate. 				
74LV245 v.2	19980420	Product specification	-	74LV245 v.1	
74LV245 v.1	19970303	Product specification	-	-	

Octal bus transceiver; 3-state

14. Legal information

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.
- [2] The term 'short data sheet' is explained in section "Definitions".
- 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 https://www.nexperia.com.

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.

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.

Quick reference data — The Quick reference data is an extract of the product data given in the Limiting values and Characteristics sections of this document, and as such is not complete, exhaustive or legally binding.

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 sustained.

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.

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 nor 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, and (b) whenever customer uses the product for automotive applications 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.

Trademarks

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

Nexperia

74LV245

Octal bus transceiver; 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	3
5.2. Pin description	3
6. Functional description	3
7. Limiting values	4
8. Recommended operating conditions	4
9. Static characteristics	
10. Dynamic characteristics	6
10.1. Waveforms and test circuit	7
11. Package outline	g
12. Abbreviations	11
13. Revision history	
14. Legal information	

For more information, please visit: http://www.nexperia.com For sales office addresses, please send an email to: salesaddresses@nexperia.com Date of release: 4 July 2024

13 / 13

[©] Nexperia B.V. 2024. All rights reserved



OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

















Tel: +00 852-30501935