Changes from Revision D (April 2020) to Revision E Added: (See SLLA490) to the Features list			20200526	002		PCN Date:	М	ay :	29, 2020	
Change Type: Assembly Site Assembly Process Data Sheet Wafer Bump Site Assembly Materials Part number change Wafer Bump Process Mafer Fab Site Wafer Fab Site Wafer Fab Site Wafer Fab Site Wafer Fab Naterials Wafer Fab Site Wafer Fab Naterials Wafer Fab Site Wafer Fab Naterials Wafer Fab Process Notification Details Pescription of Change: Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details. TIN2029-C SILSEYSE—OCTOSER 2017 - REVISEO MAY 25 Changes from Revision D (April 2020) to Revision E Page Added: (See SLLA490) to the Features list. Added: (See SLLA490) to the Features list. Changed Feature From: ±58-V LIN bus fault protection To: ±60-V LIN bus fault protection. Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Master Mode. Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode. Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode. Changed Lupen from MIN = −58, MAX = 58 To: MIN = −60, MAX = 60 in the Absolute Maximum Ratings. Changed Cupen from Min = −58, MAX = 58 To: MIN = −60, MAX = 60 in the Absolute Maximum Ratings. Changed from Revision B (May 2020) to Revision C Added: (See SLLA493) to the Features list. Changed one 3 to: Results given here are specific to the SAE J2962-1 Communication Transceivers Qualification Requirements - LIN. Testing performed by OEM approved independent										
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terminal is a bi-directional high-voltage reverse battery protected input To: The WAKE terminal is a bi-directional high-voltage input TEXAS INSTRUMENTS TLIN144 SLLSF27C –NOVEMBER 2018–REVISED MA hanges from Revision B (March 2019) to Revision C Added: (See SLLA494) to the Features list Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP} Changed the capacitor value on pin 5 (LIN) From: 220 pF to 200 pF in Figure 38 and Figure 39 Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 51 TEXAS INSTRUMENTS TLIN102	TEXAS INSTRUMENTS TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP} Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 51 Added: (See SLLA490) to the Features list Changes from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 38 and Figure 39 Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 51 Added: (See SLLA490) to the Features list Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 51 Added: (See SLLA490) to the Features list Added: See errata TLIN1029-Q1 and TLIN2029-Q1 Duty Cycle Over V _{SUP} Anges from Revision C (July 2019) to Revision D Pa Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Master Mode Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode Changed C _{LINPIN} from MAX = 45 pF To: MAX = 25 pF and added V _{SUP} = 14 V for Test Condition in Electrical	TEXAS INSTRUMENTS TLIN1441- SLLSF27C -NOVEMBER 2018-REVISED MAY 2 anges from Revision B (March 2019) to Revision C Added: (See SLLA494) to the Features list Changed the capacitor value on pin 5 (LIN) From: 220 pF to 200 pF in Figure 38 and Figure 39 Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 51. TEXAS INSTRUMENTS TLIN1029- SLLSEYSE -OCTOBER 2017-REVISED MAY 2 Added: (See SLLA490) to the Features list Added: (See SLLA490) to the Features list Added: (See SLLA490) to the Features list Added: (See SLLA490) to the Features list Added: (See SLLA490) to the Features list Changed the capacitor C (July 2019) to Revision E Pa Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Master Mode Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode Changed C (LINPIN) from MAX = 45 pF To: MAX = 25 pF and added V SUP = 14 V for Test Condition in Electrical Characteristics		
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Added: (See SLLA494) to the Features list	INSTRUMENTS SILSETZC -NOVEMBER 2018 - REVISED MAY 2 Inges from Revision B (March 2019) to Revision C Page Added: (See SLLA494) to the Features list	TEXAS INSTRUMENTS TLIN1029- Subset of the Revision D (March 2019) to Revision E Added: (See SLLA494) to the Features list Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP} Changed the capacitor value on pin 5 (LIN) From: 220 pF to 200 pF in Figure 38 and Figure 39 Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 51 TEXAS INSTRUMENTS TLIN1029- Subset of the Subset of the Subset of the Subset of the Supplified Schematics, Master Mode Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode Changed CLINPIN from MAX = 45 pF To: MAX = 25 pF and added V _{SUP} = 14 V for Test Condition in Electrical Characteristics	high-voltage input	2
Added: (See SLLA494) to the Features list	INSTRUMENTS SILSETZC -NOVEMBER 2018 - REVISED MAY 2 Inges from Revision B (March 2019) to Revision C Page Added: (See SLLA494) to the Features list	TEXAS INSTRUMENTS TLIN1029- Subset of the Revision D (March 2019) to Revision E Added: (See SLLA494) to the Features list Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP} Changed the capacitor value on pin 5 (LIN) From: 220 pF to 200 pF in Figure 38 and Figure 39 Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 51 TEXAS INSTRUMENTS TLIN1029- Subset of the Subset of the Subset of the Subset of the Supplified Schematics, Master Mode Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode Changed CLINPIN from MAX = 45 pF To: MAX = 25 pF and added V _{SUP} = 14 V for Test Condition in Electrical Characteristics		
Added: (See SLLA494) to the Features list	INSTRUMENTS SILSETZC -NOVEMBER 2018 - REVISED MAY 2 Inges from Revision B (March 2019) to Revision C Page Added: (See SLLA494) to the Features list	TEXAS INSTRUMENTS TLIN1029- Subset of the Revision D (March 2019) to Revision E Added: (See SLLA494) to the Features list Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP} Changed the capacitor value on pin 5 (LIN) From: 220 pF to 200 pF in Figure 38 and Figure 39 Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 51 TEXAS INSTRUMENTS TLIN1029- Subset of the Subset of the Subset of the Subset of the Supplified Schematics, Master Mode Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode Changed CLINPIN from MAX = 45 pF To: MAX = 25 pF and added V _{SUP} = 14 V for Test Condition in Electrical Characteristics	TEXAS	TI IN1441-0
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Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP}	Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP}	Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP}	anges from Revision B (March 2019) to Revision C	Pag
Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP}	Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP}	Added: See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP}	Added: (See SLLA494) to the Features list	
Changed the capacitor value on pin 5 (LIN) From: 220 pF to 200 pF in Figure 38 and Figure 39	Changed the capacitor value on pin 5 (LIN) From: 220 pF to 200 pF in Figure 38 and Figure 39	Changed the capacitor value on pin 5 (LIN) From: 220 pF to 200 pF in Figure 38 and Figure 39		
Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 51 TEXAS INSTRUMENTS TLIN102	TEXAS INSTRUMENTS TLIN1029- SLLSEY5E - OCTOBER 2017 - REVISED MAY 2 anges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list	TEXAS INSTRUMENTS TLIN1029- SLLSEYSE - OCTOBER 2017 - REVISED MAY 2 Added: (See SLLA490) to the Features list		
TEXAS INSTRUMENTS TLIN102	TEXAS INSTRUMENTS TLIN1029- SLLSEY5E - OCTOBER 2017 - REVISED MAY 2 anges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list Added: See errata TLIN1029-Q1 and TLIN2029-Q1 Duty Cycle Over V _{SUP}	TLIN1029- SLLSEY5E - OCTOBER 2017 - REVISED MAY 2 manges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list Added: See errata TLIN1029-Q1 and TLIN2029-Q1 Duty Cycle Over V _{SUP} manges from Revision C (July 2019) to Revision D Pa Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Master Mode Changed C _{LINPIN} from MAX = 45 pF To: MAX = 25 pF and added V _{SUP} = 14 V for Test Condition in Electrical Characteristics		
SLLSEY5E - OCTOBER 2017 - REVISED MA	Added: (See SLLA490) to the Features list	Added: (See SLLA490) to the Features list		
Changes from Revision D (March 2020) to Revision E	Added: (See SLLA490) to the Features list	Added: (See SLLA490) to the <i>Features</i> list	CLIC	TLIN1029-
	Added: See errata TLIN1029-Q1 and TLIN2029-Q1 Duty Cycle Over V _{SUP}	Added: See errata TLIN1029-Q1 and TLIN2029-Q1 Duty Cycle Over V _{SUP}	hanges from Revision D (March 2020) to Revision E	EY5E - OCTOBER 2017-REVISED MAY 2
	anges from Revision C (July 2019) to Revision D Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Master Mode Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode Changed C _{LINPIN} from MAX = 45 pF To: MAX = 25 pF and added V _{SUP} = 14 V for Test Condition in Electrical	Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Master Mode	hanges from Revision D (March 2020) to Revision E	EY5E - OCTOBER 2017-REVISED MAY 2
,	Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Master Mode	Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Master Mode Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode Changed C _{LINPIN} from MAX = 45 pF To: MAX = 25 pF and added V _{SUP} = 14 V for Test Condition in Electrical Characteristics	hanges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list	EY5E -OCTOBER 2017-REVISED MAY 2
Changes from Revision C (July 2019) to Revision D	Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode	Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode	hanges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list	EY5E -OCTOBER 2017-REVISED MAY 2
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Changed the 200 pF capacitor To: 220 pF in the Simplified Schematics, Slave Mode	Changed C_{LINPIN} from MAX = 45 pF To: MAX = 25 pF and added V_{SUP} = 14 V for Test Condition in Electrical	Changed C _{LINPIN} from MAX = 45 pF To: MAX = 25 pF and added V _{SUP} = 14 V for Test Condition in Electrical Characteristics	hanges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list	Pa
Changed C_{LINPIN} from MAX = 45 pF To: MAX = 25 pF and added V_{SUP} = 14 V for Test Condition in Electrical		Changed text From: "For slave applications a 200 pF canacitor" To: "For slave applications a 220 pF canacitor" For	hanges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list	Pa
	Changed text From: "For slave applications a 200 pF capacitor" To: "For slave applications a 220 pF capacitor" For		hanges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list	Pa Condition in Electrical
Added: (See SLLA490) to the <i>Features</i> list Added: See errata TLIN1029-Q1 and TLIN2029-Q1 Duty Cycle Over V _{SUP} Changes from Revision C (July 2019) to Revision D	Changed C_{LINPIN} from MAX = 45 pF To: MAX = 25 pF and added V_{SUP} = 14 V for Test Condition in Electrical	Changed C_{LINPIN} from MAX = 45 pF To: MAX = 25 pF and added V_{SUP} = 14 V for Test Condition in Electrical Characteristics	CLIC	
Characteristics		Changed text From: "For slave applications a 200 pF canacitor" To: "For slave applications a 220 pF canacitor" For	hanges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list	Pa
	Changed text From: "For slave applications a 200 pF capacitor" To: "For slave applications a 220 pF capacitor" For		hanges from Revision D (March 2020) to Revision E Added: (See SLLA490) to the Features list	Pa Condition in Electrical
		Pin 6 (LIN) in the Layout Guidelines.	Added: (See SLLA490) to the Features list	Pa Condition in Electrical ations a 220 pF capacitor" For
	Pin 6 (LIN) in the Layout Guidelines		Added: (See SLLA490) to the Features list	Pa Condition in Electrical ations a 220 pF capacitor" For
Pin 6 (LIN) in the Layout Guidelines	TUNA0288	TI IN1020C	Added: (See SLLA490) to the Features list	Pa Condition in Electrical ations a 220 pF capacitor" For
Pin 6 (LIN) in the Layout Guidelines. TEXAS INSTRUMENTS TLIN1028	TUNA0288	INSTRUMENTS TLIN1028S	Added: (See SLLA490) to the Features list	Pa Condition in Electrical TLIN1028S-
Pin 6 (LIN) in the Layout Guidelines. TEXAS INSTRUMENTS TLIN1028 SLLSFG0A - NOVEMBER 2019 - REVISED MA	TEXAS INSTRUMENTS SLLSFG0A - NOVEMBER 2019 - REVISED MAY	INSTRUMENTS TLIN1028S SLLSFG0A - NOVEMBER 2019 - REVISED MAY	Added: (See SLLA490) to the Features list	Pa Condition in Electrical TLIN1028S-
Pin 6 (LIN) in the Layout Guidelines. TEXAS INSTRUMENTS SLLSFG0A – NOVEMBER 2019 – REVISED M. Changes from Original (November 2019) to Revision A	TEXAS INSTRUMENTS SLLSFG0A - NOVEMBER 2019 - REVISED MAY anges from Original (November 2019) to Revision A Policy of the control of the co	INSTRUMENTS SLLSFG0A - NOVEMBER 2019 - REVISED MAY nanges from Original (November 2019) to Revision A Potential (November 2019) to Revision A	Added: (See SLLA490) to the Features list	Pa Condition in Electrical TLIN1028S- G0A - NOVEMBER 2019 - REVISED MAY 2
Pin 6 (LIN) in the Layout Guidelines TEXAS INSTRUMENTS SLLSFG0A - NOVEMBER 2019 - REVISED M. Changes from Original (November 2019) to Revision A Added: (See SLLA495) to the Features list	TEXAS INSTRUMENTS SLLSFG0A - NOVEMBER 2019 - REVISED MAY	INSTRUMENTS TLIN1028S SLLSFG0A - NOVEMBER 2019 - REVISED MAY ananges from Original (November 2019) to Revision A Added: (See SLLA495) to the Features list	Added: (See SLLA490) to the Features list	Pa Condition in Electrical ations a 220 pF capacitor" For TLIN1028S- G0A - NOVEMBER 2019 - REVISED MAY 2



Changes from Revision B (April 2020) to Revision C	Page
Added: (See SLLA491) to the Features list	1
Added : See errata TLIN1022-Q1 and TLIN2022-Q1 Duty Cycle Over V _{SUP}	7
	_
Changes from Revision A (January 2019) to Revision B	Page
Changed Feature From: ±58 V LIN bus fault protection To: ±60 V LIN bus fault protection	1
Deleted Product Preview from the VSON (14) (DMT) pachage	1
Changed V _{SUP} from max = 58 V to max = 60 V in Absolute Maximum Ratings	4
Changed V _{LIN} from min = -58 V, max = 58 V to min = -60 V, max = 60 V in Absolute Maximum Ratings	4
Changed V _{LOGIC} from max = 5.5 V to: 6 V in Absolute Maximum Ratings	4
Changed C_{LINPIN} from max = 45 pF to max = 25 pF and added V_{SUP} = 14 V for test condition in electrical characteristics	6
TEXAS INSTRUMENTS	_IN1022-Q
SLLSEZ8C - DECEMBER 2017 - REV	ISED MAY 202
Changes from Revision B (April 2020) to Revision C	Page
Added: (See SLLA491) to the Features list	1
Added : See errata TLIN1022-Q1 and TLIN2022-Q1 Duty Cycle Over V _{SUP}	
Changes from Revision A (January 2019) to Revision B	Page
Deleted Product Preview from the VSON (14) (DMT) pachage	1
Changed V _{LOGIC} from max = 5.5 V to: 6 V in Absolute Maximum Ratings	4
• Changed C_{LINPIN} from max = 45 pF to max = 25 pF and added V_{SUP} = 14 V for test condition in electrical	
characteristics	6
TEXAS	
INSTRUMENTS	IN1024-Q1
SLLSF04C – APRIL 2018–REVIS	
Changes from Revision B (December 2019) to Revision C	Page
Added: (See SLLA492) to the Features list	1
Added : See errata TLIN1024-Q1 Duty Cycle Over V _{SUP}	7
Changes from Revision A (May 2018) to Revision B	Page
Changed Feature From: HBM Classification level: ±6 kV To: HBM Classification level: ±8 kV	1
Changed the V _{LOGIC} MAX value From: 5.5 V To: 6 V in the Absolute Maximum Ratings	5
Deleted J2962-1 ESD and ISO Pulses from ESD Ratings	5
Changed the HBM value from ±6000 to ±8000 in the ESD Ratings	5
Changed IEC 61000-4-2 to IEC 62228-2 and made three rows, two for contact and added indirect ESD	
Changed I _{CC} to I _{SUP}	
Changed the Supply Current 4 V Sleep Mode TYP values From: 20 μA To: 7 μA and the MAX value From: 40 μA To: 20 μA	
Changed the Supply Current 14 V Sleep Mode MAX value From: 60 μA To: 30 μA	6
Changed the C _{LINPIN} MAX value From: 45 pF To: 25 pF	
Added TEST CONDITION: VSUP = 14 V to C _{LINPIN}	
Changed From ±42 V To: ±45 V in Overview Section	21
	21



C	Changes from Revision A (March 2019) to Revision B			
•	Added: (See SLLA494) to the Features list	1		
•	Added : See errata TLIN1441-Q1 and TLIN2441-Q1 Duty Cycle Over V _{SUP}	8		
•	Changed the capacitor value on pin 5 (LIN) From: 220 pF to 200 pF in Figure 32 and Figure 33	39		
•	Changed the capacitor value on LIN From: 220 pF to 200 pF in Figure 44	45		

The datasheet number will be changing.

The datasheet number will be changing.				
Device Family	Change From:	Change To:		
TLIN2029-Q1	SLLSEY6C	SLLSEY6E		
TLIN1021-Q1	SLLSEU9A	SLLSEU9C		
TLIN2021-Q1	SLLSF61	SLLSF61B		
TLIN1441-Q1	SLLSF27B	SLLSF27C		
TLIN1029-Q1	SLLSEY5C	SLLSEY5E		
TLIN1028S-Q1	SLLSFG0	SLLSFG0A		
TLIN2022-Q1	SLLSF01A	SLLSF01C		
TLIN1022-Q1	SLLSEZ8A	SLLSEZ8C		
TLIN1024-Q1	SLLSF04A	SLLSF04C		
TLIN2441-Q1	SLLSF28A	SLLSF28B		

These changes may be reviewed at the datasheet links provided.

http://www.ti.com/product/TLIN2029-Q1

http://www.ti.com/product/TLIN1021-Q1

http://www.ti.com/product/TLIN2021-Q1

http://www.ti.com/product/TLIN1441-Q1

http://www.ti.com/product/TLIN1029-Q1

http://www.ti.com/product/TLIN1028S-Q1

http://www.ti.com/product/TLIN2022-Q1

http://www.ti.com/product/TLIN1022-Q1

http://www.ti.com/product/TLIN1024-Q1

http://www.ti.com/product/TLIN2441-Q1

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

This is a specification change announcement only. There are no changes to the actual device. If the datasheet changes affect your system TI recommends you notify your OEM and request a variance.

Changes to product identification resulting from this PCN:

None.

Product Affected:			
TLIN2029DQ1	TLIN2029DRBRQ1	TLIN2029DRBTQ1	TLIN2029DRQ1
TLIN1021DRBRQ1	TLIN1021DRQ1	TLIN2021DRBRQ1	TLIN2021DRBRQ1
TLIN14413DMTRQ1	TLIN14413DMTTQ1	TLIN14415DMTRQ1	TLIN14415DMTTQ1
TLIN1029DQ1	TLIN1029DRBRQ1	TLIN1029DRBTQ1	TLIN1029DRQ1
TLIN1029MDRBRQ1	TLIN10283SDRQ1	TLIN10285SDRQ1	TLIN2022DMTRQ1
TLIN2022DMTTQ1	TLIN2022DRQ1	TLIN1022DMTRQ1	TLIN1022DMTTQ1
TLIN1022DRQ1	TLIN1024RGYRQ1	TLIN1024RGYTQ1	TLIN24413DMTRQ1
TLIN24413DMTTQ1	TLIN24415DMTRQ1	TLIN24415DMTTQ1	

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