

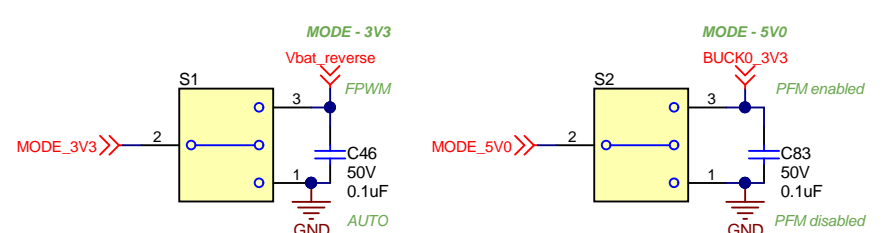
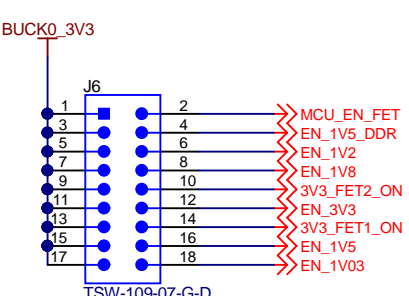
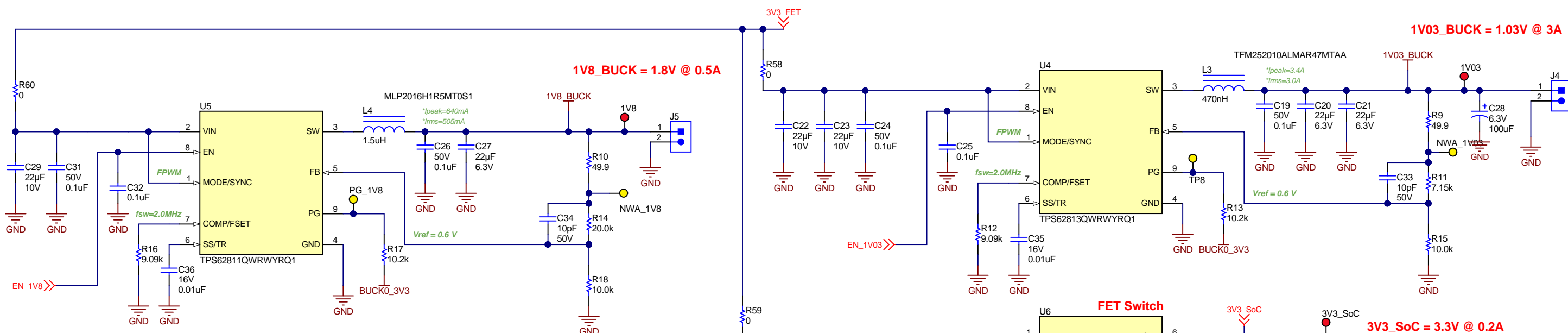
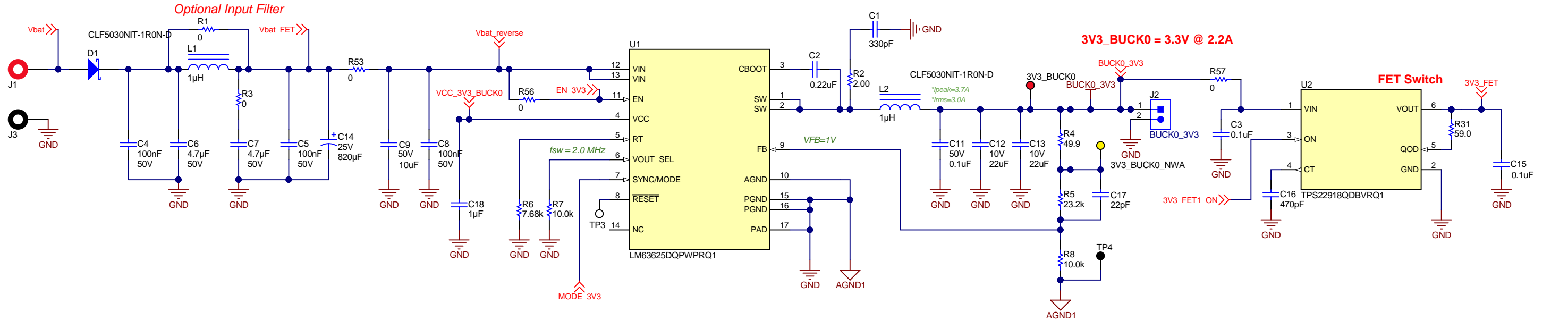
Revision History				
Rev	ECN #	Approved Date	Approved by	Notes
A	N/A	10/29	I.Weiss	*** PRELIMINARY SCHEMATIC ****
B		11/29	I.Weiss	*** Add Electrolytic Caps, Layout ****

Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Orderable: ChangeMe in variant	Designed for: Public Release	Mod. Date: 11/29/2019	 http://www.ti.com © Texas Instruments 2019
TID #: N/A	Project Title: Automotive Power Supply for Monitoring System		
Number: PMP30785	Rev: B	Sheet: 1 of 4	
SVN Rev: Not in version control	Assembly Variant: 001	Size: B	
Drawn By: I.Weiss	File: PMP30785RevB_Cover.SchDoc	Contact: http://www.ti.com/support	

Input Voltage:
8V ... 16V (14V typ)

Supply for SoC - E2



***Assembly Notes:**
 *R10, TP6, TP9 only for testing
 *R9, TP5, TP7 only for testing
 *R4, TP1, TP2 only for testing
 *Use GRT-Series for capacitors

Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Orderable: ChangeMe in variant	Designed for: Public Release	Mod. Date: 11/29/2019
TID #: N/A	Project Title: Automotive Power Supply for Monitoring System	
Number: PMP30785	Rev: B	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 2 of 4
Drawn By:	File: PMP30785RevB_SoC.SchDoc	Size: B
Engineer: I.Weiss	Contact: http://www.ti.com/support	

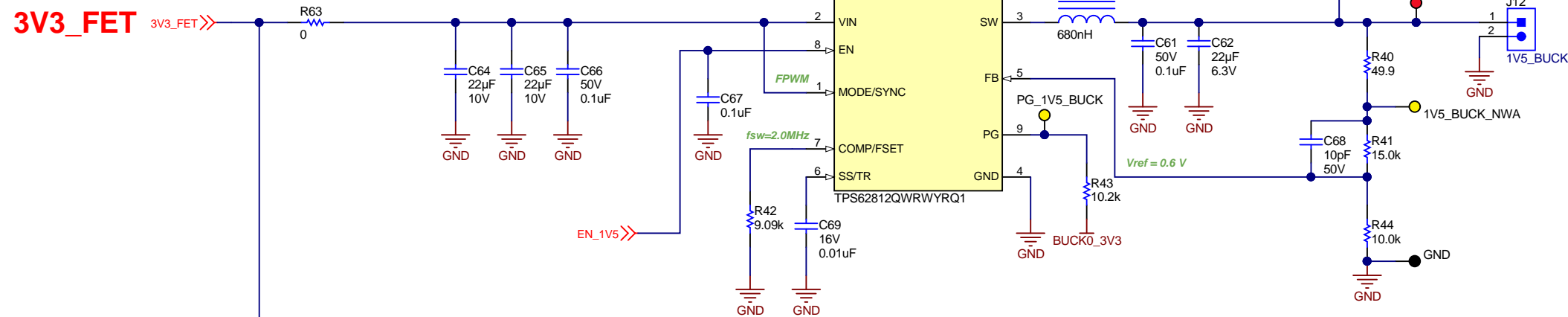


3V3_FET

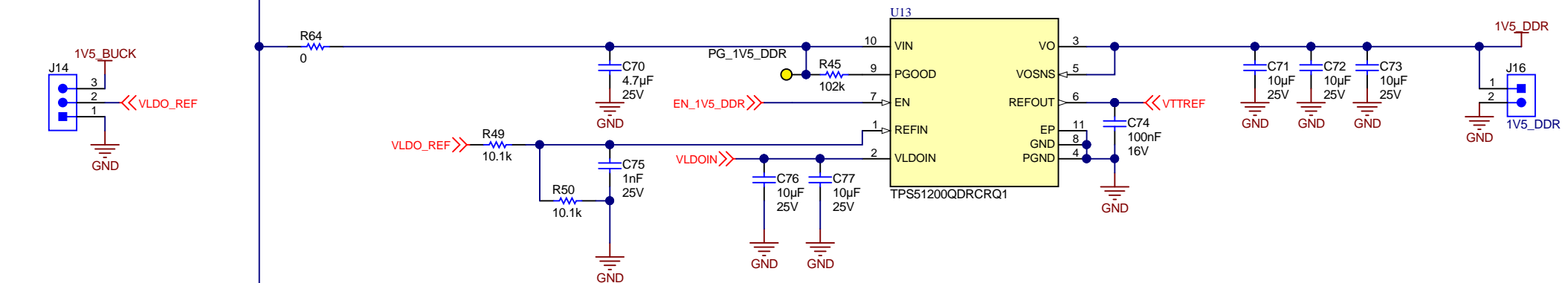
3V3_FET >>>

Supply for DDR3

1V5_BUCK = 1.5V @ 1.2A

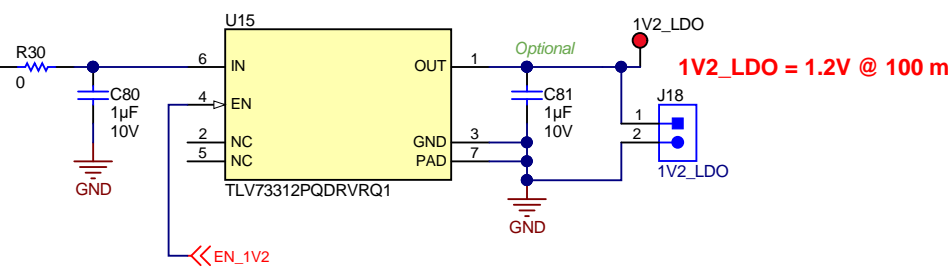


Termination

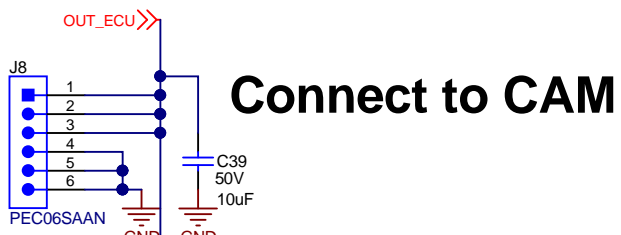


Supply for DES

1V2_LDO = 1.2V @ 100 mA

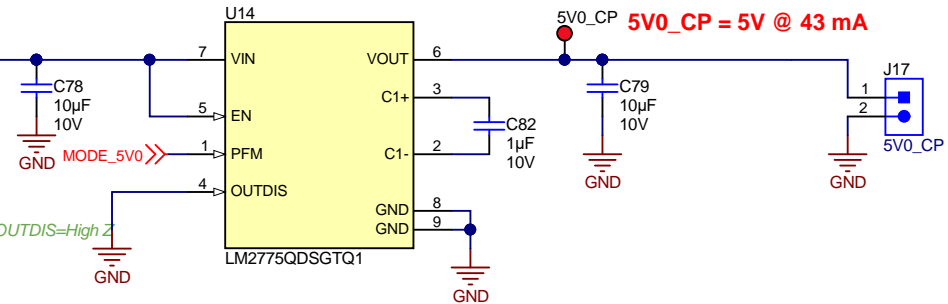


Connect to CAM



Supply for CAN

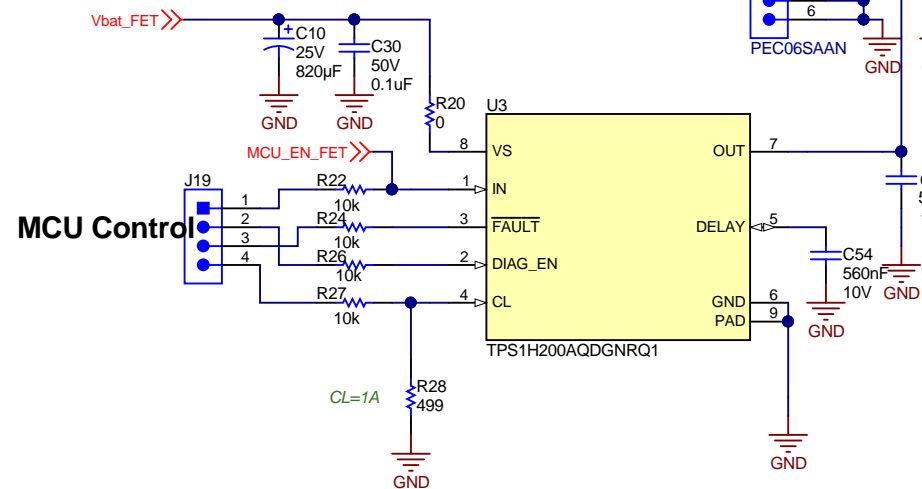
5V0_CP = 5V @ 43 mA



Vbat_FET

Vbat_FET >>>

MCU Control



Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

Orderable: ChangeMe in variant	Designed for: Public Release	Mod. Date: 11/29/2019
TID #: N/A	Project Title: Automotive Power Supply for Monitoring System	
Number: PMP30785	Rev: B	Sheet Title:
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 3 of 4
Drawn By:	File: PMP30785RevB_DDR_CAN.SchDoc	Size: B
Engineer: I.Weiss	Contact: http://www.ti.com/support	





PCB Number: PMP30785
PCB Rev: A

PCB
LOGO
Texas Instruments


Variant/Label Table	
Variant	Label Text
001	ChangeMe!
002	ChangeMe!

ZZ1
Label Assembly Note
This Assembly Note is for PCB labels only

ZZ2
Assembly Note
These assemblies are ESD sensitive, ESD precautions shall be observed.

ZZ3
Assembly Note
These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

ZZ4
Assembly Note
These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

Orderable: ChangeMe in variant	Designed for: Public Release	Mod. Date: 11/29/2019	 http://www.ti.com © Texas Instruments 2019
TID #: N/A	Project Title: Automotive Power Supply for Monitoring System		
Number: PMP30785	Rev: B	Sheet Title:	
SVN Rev: Not in version control	Assembly Variant: 001	Sheet: 4 of 4	
Drawn By: I.Weiss	File: PMP30785RevB_Hardware.SchDoc	Size: B	
Engineer: I.Weiss	Contact: http://www.ti.com/support		

Texas Instruments and/or its licensors do not warrant the accuracy or completeness of this specification or any information contained therein. Texas Instruments and/or its licensors do not warrant that this design will meet the specifications, will be suitable for your application or fit for any particular purpose, or will operate in an implementation. Texas Instruments and/or its licensors do not warrant that the design is production worthy. You should completely validate and test your design implementation to confirm the system functionality for your application.

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES "AS IS" AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI's products are provided subject to TI's Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI's provision of these resources does not expand or otherwise alter TI's applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2020, Texas Instruments Incorporated