Table of Contents	4 3 2	Revisions & Change Log				
1 Title	] =		Description	Date Approved 04/10/12 M. NORMAN		
2 Block Diagram 3 KL25Z MCU	-	A		05/03/12 M. NORMAN		
4 OpenSDA INTERFACE		В	Prototype redefinition.	05/09/12 M. NORMAN		
5   I/O Headers and Power Supply			KL25 XTAL capacitors C16 & C19 changed from 10pF DNP to 22pF populated. Defined A5 signal from R20 MCU			
		С	Prototype release.  Fixed J10 orientation according to Arduino R3	05/21/12 M. NORMAN		
		$\vdash$	specification Prototype Re-spin.	06/00/10 // 200000		
c c	FREEDOM KL25Z	D	Changed two pin headers to DNP bottom-shorting headers. Added support to AT45DB161D-S or AT45DB161D-S or AT45DB161D-S or AT45DB161D-S or AT45DB161D-S or AT45DB161D-S or AT45DB161D-SHD STIP flash Memory. Added 2pin header (J11) for on-board MCU programming isolation. Redefined KL25 power netnames. Changed USB connectors part numbers J5 and J7 Changed KL25 XTAL IM resistor (RZ5) to DNP Changed X-FREEDOM-KL25Z board name to FRDM-KL25Z board name to FRDM-KL25Z board name to FRDM-KL25Z board CLK isolation. Changed 2pin header (J11) location for on-board MCU SWD CLK isolation. Changed to DNP non-production BOM parts BT1, J1, J2, J3, J4, J6, J9, J10, TP6, US, J8 Removed OpenSDA leverage hint voltage legend	06/29/12 M. NORMAN  07/10/12 M. NORMAN		
<b>a</b>		DX1	Production Re-spin.  Fixing V. drop in ADC by changing SNI for R17 & R80, and 3.0V zenner (D9) also changed BATS4C (D6, D7, D8, D1) for MBR12VVLSFIG diodes (D6, D7, D8, D10, D11, D12, D13 to enhance VF curve and current capability. Added J20 header to bypass D12 vdrop. Changed J4 and J3 to no bottom-shorting headers and added R73 & R74 O-ohm instead, along with R81 for current measuring Added USB host functionality without electrical protection by placing J21 and R82 options. Updated K125 symbol TPM to FTM function misnaming	01/22/13 M. NORMAN  S 01/30/13 M. NORMAN		
[A	Designer: RAFAEL DE RAFAEL DE	EL REY	Automotive, Industry Market Solutions Green William Cannon Drive W ICAP Classification: FOP: FRDM-KL25Z Fage Title: TITLE PAGE	Group		

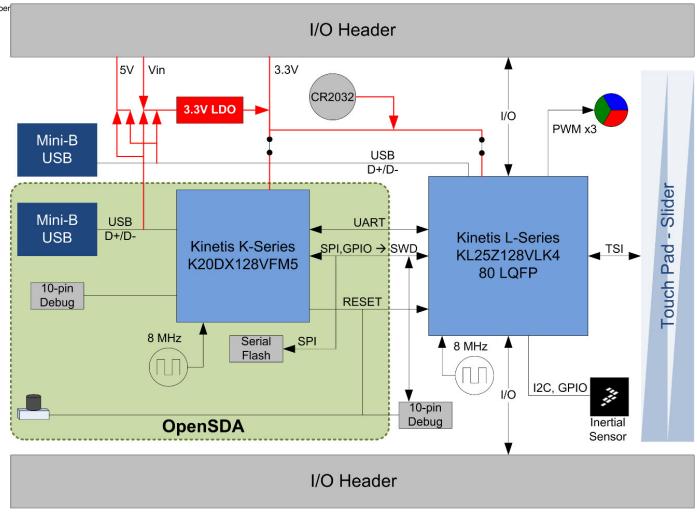
TITLE PAGE

Document Number

- 1. Unless Otherwise Specified:
  - All resistors are in ohms, 5%, 1/8 Watt All capacitors are in uF, 20%, 50V

All voltages are DC

- All polarized capacitors are aluminum electrolytic
- 2. Interrupted lines coded with the same letter or letter combinations are electrically connected.
- Device type number is for reference only. The number varies with the manufacturer.
- 4. Special signal usage:
  - \_B Denotes Active-Low Signal
  - <> or [] Denotes Vectored Signals
- 5. Interpret diagram in accordance with American National Standards Institute specifications, current revision, with the exception of logic block symbology.



Indicates optional items that will **not** be populated by default

	frees	scale					
ICAP C	lassification:	FCP:	FIUO:	PUB	1: X		
Drawing		M-KL2	5Z				
Page Ti		K DIAGR	АМ				
Size C	Document Number SCH-27556   PDF: SPF-27556						Re
Date:	Wednesday, Jan	uary 30, 2013	Shee	t 2	of	5	_

