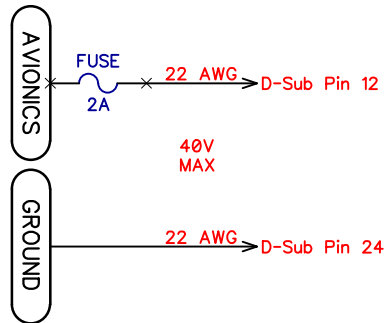
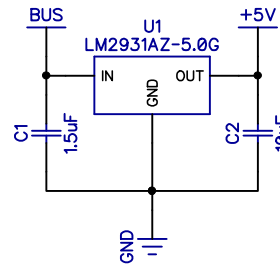


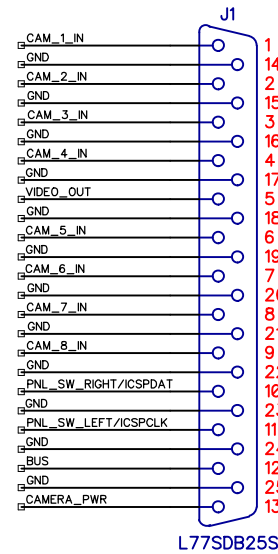
BUS POWER



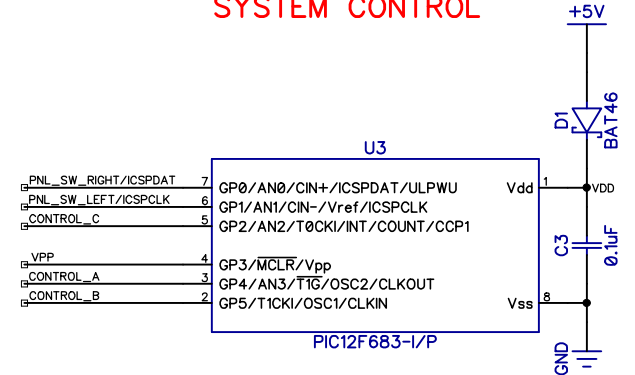
POWER SUPPLY



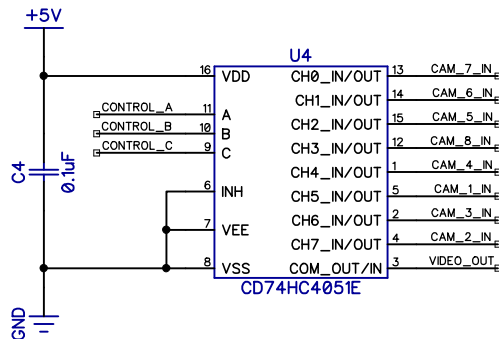
CONNECTOR PINOUT



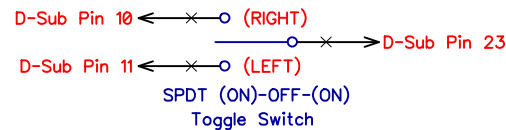
SYSTEM CONTROL



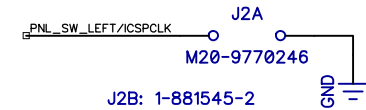
VIDEO SWITCHING



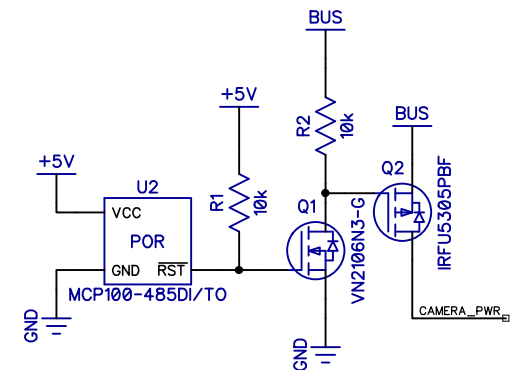
PANEL SWITCH



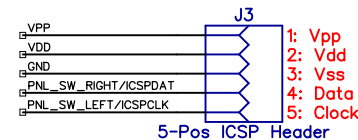
NO. CAMS PROGRAM JUMPER



CAMERA POWER SEQUENCING



IN-CIRCUIT PROGRAMMING



Title:		Rev:
8-Channel Video Camera Multiplexer		C
- Adjustable Scan Rate: 1-16 Sec		Size:
- Camera Hold and Step		
		11x8.5
Date:	Drawn by: EP	
29 Oct 2017	Sheet:	1 of 2

	6	5	4	3	2	1
D	Printed Circuit Board: Order Link TBD					D
C	C1: TDK Corporation FG14X7R1H155KRT06 1.5uF 10% 50V X7R Ceramic Capacitor C2: TDK Corporation FG14X7R1A106KRT06 10uF 10% 10V X7R Ceramic Capacitor C3, C4: Vishay BC Components K104K15X7RF53L2 0.1uF 10% 50V X7R Ceramic Capacitor D1: STMicroelectronics BAT46 100V 150mA Schottky Diode (DO-35) J1: Amphenol Commercial Products L77SDB25S 25-Pos D-Sub Connector (Solder Cup) J2A: Harwin, Inc. M20-9770246 2-Pos Male Pin Header 0.1" Pitch 5.8mm Mating Length J2B: TE Connectivity AMP 1-881545-2 2-Pos Open Top Shunt Jumper 5.8mm Length J3: Sullins Connector Solutions PREC005SAAN-RC 5-Pos Male Pin Header 0.1" Pitch 5.84mm Mating Length Q1: Microchip Technology VN2106N3-G 60V 300mA N-Channel MOSFET (TO-92-3) Q2: Infineon Technologies IRFU5305PBF 55V 31A P-Channel MOSFET (I-PAK) R1, R2: Stackpole Electronics RNMF14FTC10K0 10k-Ohm 1% 1/4W Metal Film Resistor S1: Nidec Copal Electronics 8C1041-Z SPDT (ON)-OFF-(ON) Panel Mount Toggle Switch U1: ON Semiconductor LM2931AZ-5.0G 5V 100mA Linear Voltage Regulator (TO-92-3) U2: Microchip Technology MCP100-485DI/TO 4.85V 150mS Power-On Reset (TO-92-3) U3: Microchip Technology PIC12F683-I/P 8-Bit MCU (8-DIP) U4: Texas Instruments CD74HC4051E 8:1 Multiplexer (16-DIP) Enclosure: NorComp, Inc. 983-025-020R121 Shielded DB25 Backshell					C
	Digi-Key Shopping Cart (All Parts, Less PCB): http://www.digikey.com/short/qth2wb					B
A	Title: 8-Channel Video Camera Multiplexer - Bill of Materials		Rev: C			
			Size: 11x8.5			
	Date: 29 Oct 2017	Drawn by: EP				
		Sheet: 2	of 2			
	6	5	4	3	2	1