Power

9V battery 5 V buck boost 2 A> 3V3 1 A 1V8 1 A 1V2 1 A Power up sequence 5 V Current limiter 5V on/off Current measurement on overall current Voltage check on Batteries 5V BURN OUT

See page 11

USB Host Client

USB Client 1,5 , 12 and 480 MBit USB Host 1,5, 12 Mbit 5 Volt +500 mA (1,2A MAX) Current limiter Apple Autentic IC + Decoding MCU

See page 2 and 3

Input

4 Input ports (see page 4): Port 1: PixyCam (see page 5) Port 2: Gyro sensor (see page 6) Port 3: Color sensor (see page 7) Port 4: Ultrasonic (see page 8)

Ram Flash uSD

mDDR 1,8V 64 Mbyte 16 bit Wide uSD CARD HC version up to 32 Gbyte I2C boot ROM for secure boot SPI flash 3V3 16Mbyte

See page 2 and 3

MCU

TIAM1808

Display Button GUI

Display, B&W, 178X128 Reflective 6 Buttons UP, DOWN, L, R, ACK/ON, BACK R and G Diodes Sound out

See page 2 and 3

Output

4 Output ports (see page 9): Port A: Medium motor (Drive) Port B: Medium motor (Drive) Port C: Medium motor (Steering) (Motors schemes are on page 10)

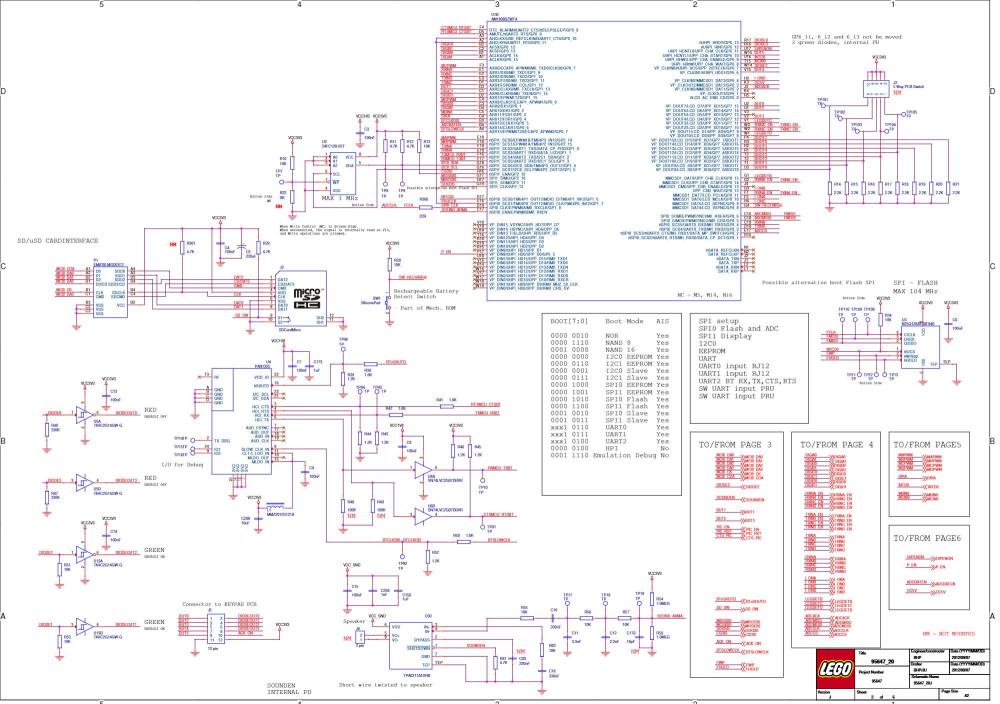
are on the KEYPAD PCB

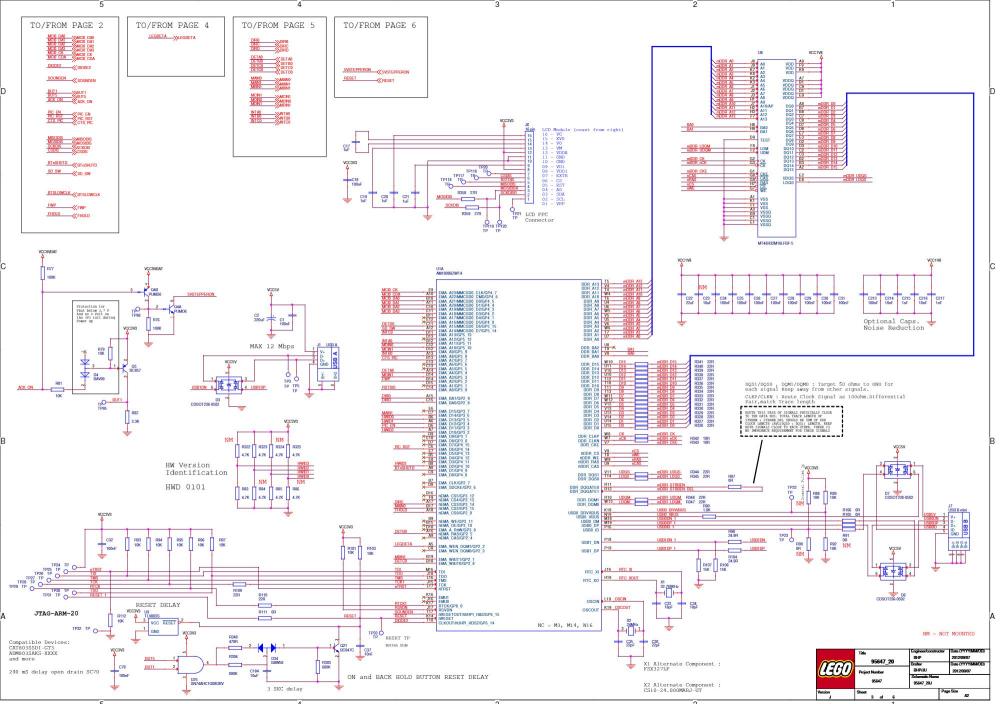
Note: PU = Pull Up PD = Pull Down SDA = Seriel DATA SCK = Seriel Clock SCR = Serier Clock
ADC = Analog Digital Converter
USB = Universial Serial Bus
UART = Universal Asynchronous Receiver/Transmitter
PWM = Pulse Wide Modulation

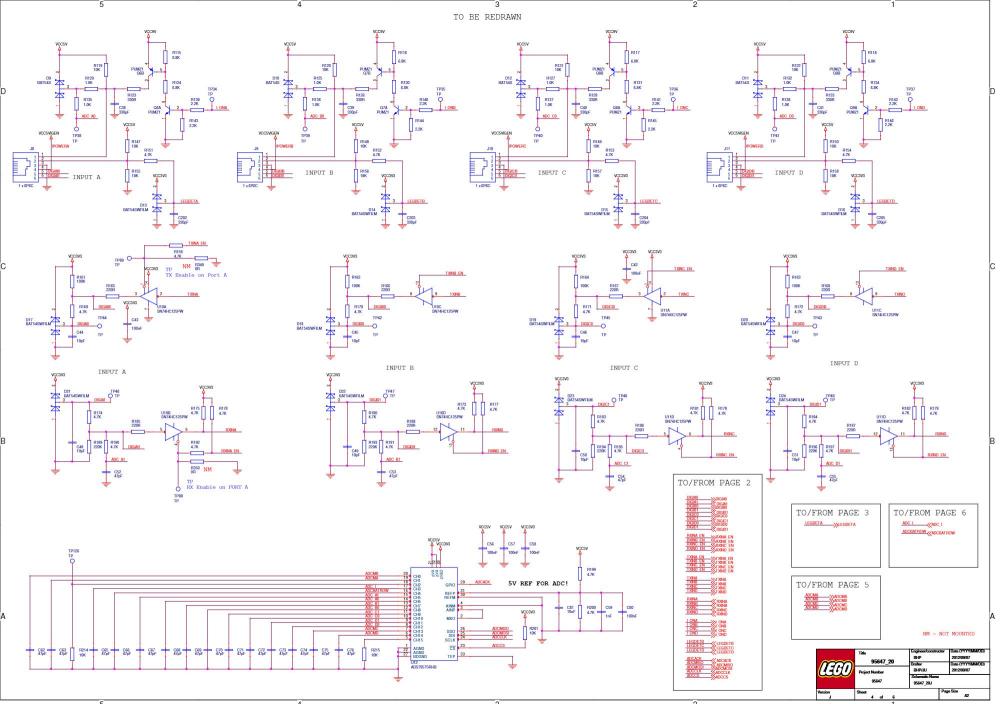
PWM = Pulse Wide Modulation GUI = Graphical User Interface B4W = Black and White mDDR = Mobile Double Data Rate synchronous DRAM R = Red G = Green

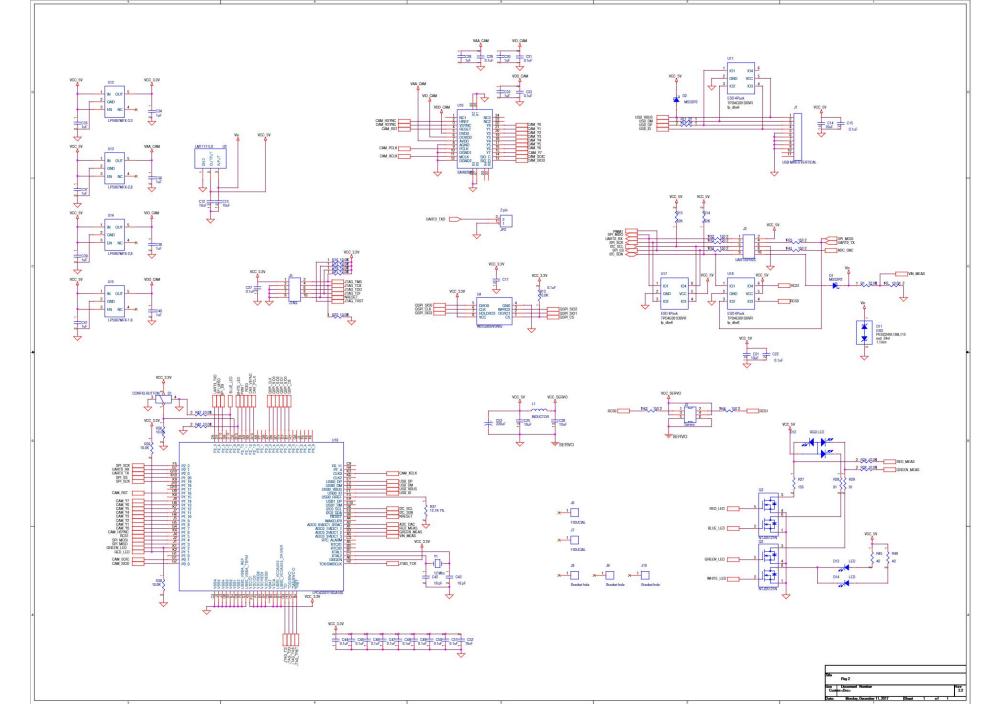
USD = micro Secure Digital 12C = Inter-Integrated Circuit SPI = Serial Peripheral Interface Bus PCB = Printed Circuit Board

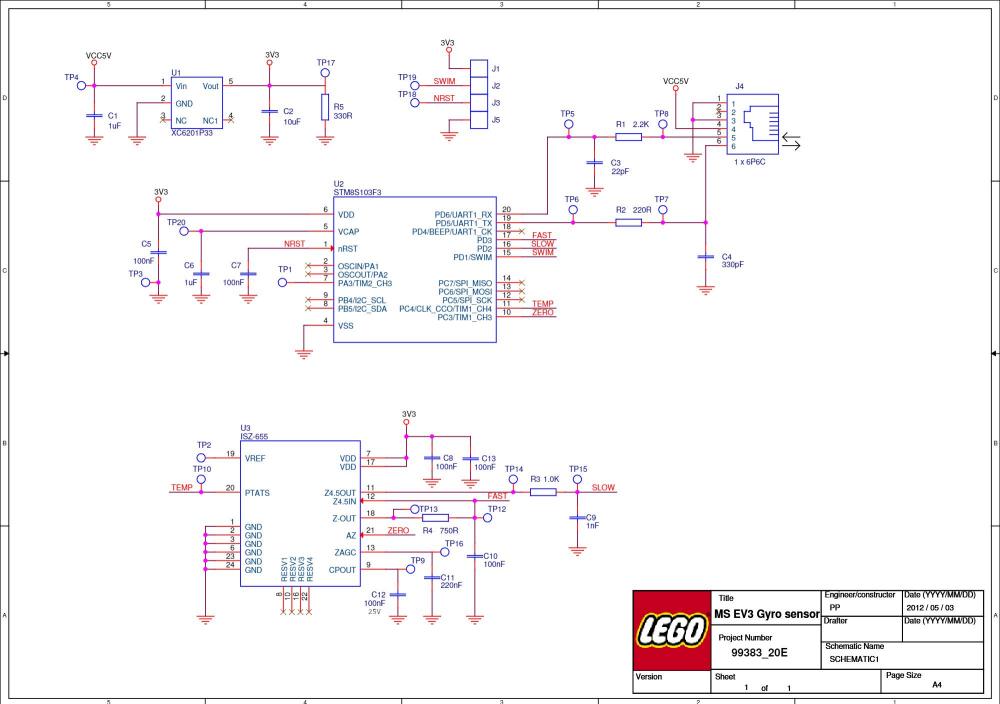
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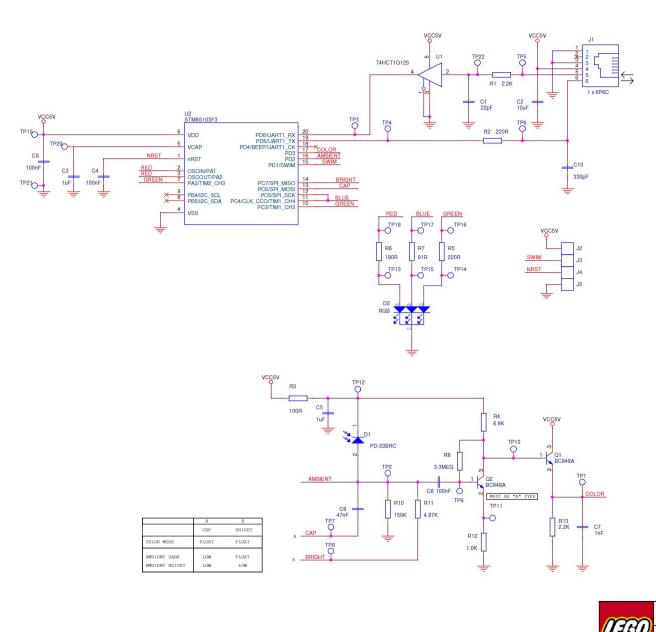


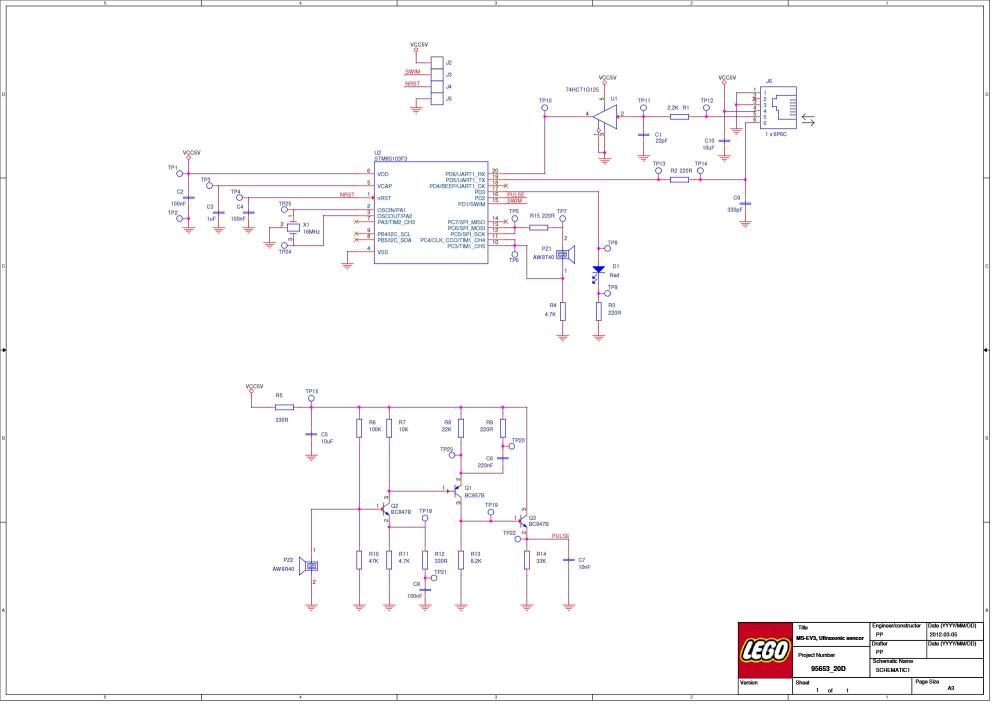


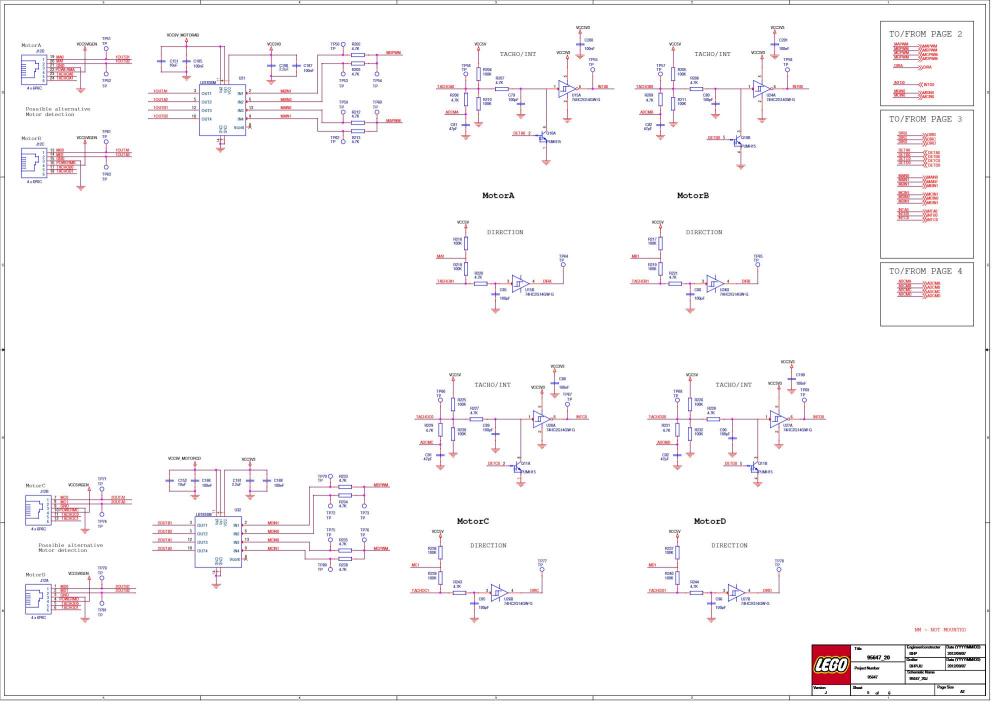


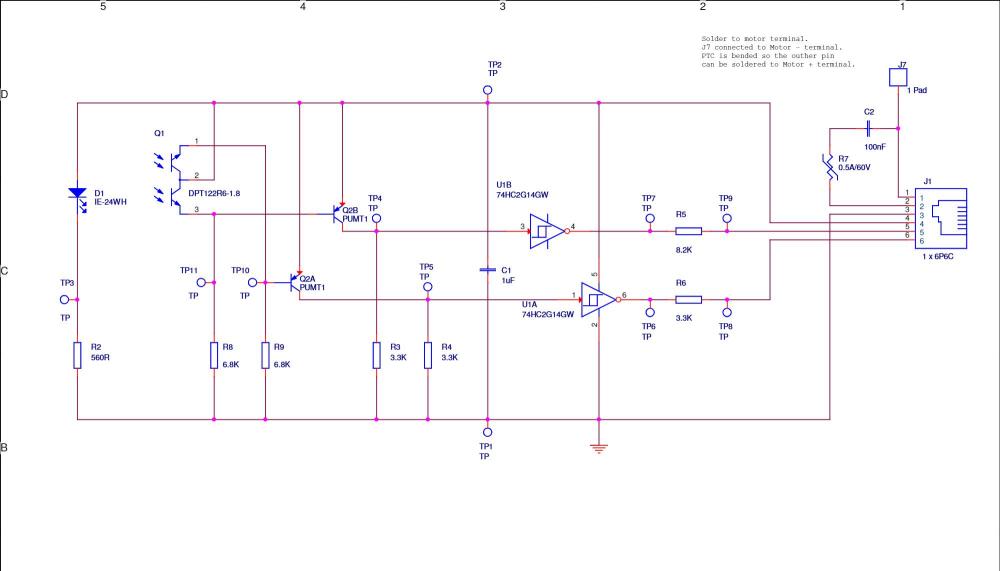












		Title	Engineer/constructe	- L
	(CCCCC)	MS-EV3, Medium motor, PCBA	JS Drafter	2012.08.29 Date (YYYY/MM/DD
1	((२११)	Project Number	JS	2012.08.29
1		99450_20	Schematic Name	
			SCHEMATIC1	
V	/ersion	Sheet	Page	

