

		Document reference: Parking Ticket Vending Machine		PCB reference: STEVAL-IPC002V1		Date:	30th-Nov-2009		
Company: STMicroelectronics									
Category	S. No.	Reference Designator	Component Description	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number or Equivalent	Supplier	Supplier Ordering Code	Quantity
STEVAL-IPC002V1 Main Board BOM List									
ST Devices	1	U1	Microcontroller, ARM 32-bit Cortex™-M3 CPU, 128K flash, 64K RAM	LQFP64	ST	STM32F103RBT6			1
	2	U2	Two-phase stepper motor driver	PowerSO-20	ST	L9935			1
	3	U4	Xpander Logic™ with 12-channel touchkey (Stouch)	QFN40	ST	STMPE1208S			1
	4	U6,U7	Battery charger system	VFQFPN16	ST	L6924D			1
	5	U8	Voltage Regulator	SO-8	ST	LD1117D33TR			1
	6	U13	3 A step-down switching regulator	HSOP-8	ST	L5987A			1
	7	U20	1 Kbit serial I ² C bus EEPROM	SO8	ST	M24C01-WMN6TP			1
	8	U21	Low Power Voltage Detector, 3.1V threshold Typical	SOT23-3 (WX)	ST	STM1061N31WX6F			1
	9	U22,U23	Low drop fixed and adjustable positive voltage regulators	DKPAK	ST	LD1117DT50TR			2
	10	Q1	P-CHANNEL 20V - 0.065W - 5A SOT23-6L 2.5V-DRIVE STripFET™ II POWER MOSFET	SOT23-6L	ST	STT5PF20V			1
	11	Q3	P-CHANNEL 30V - 0.16Ω - 7A - SO-8 STripFET™ II Power MOSFET	SO8	ST	STS7PF30L			1
	12	D1, D7, D8	Power Schottky Rectifier	SMA	ST	STPS3L60U			3
Crystal and Oscillator	1	Y1	Quartz Crystal 8MHz	11.35mmx4.35mm, SS4	Jauch	Q 8.0-SS4-22-30/30			1

	2	Y2	32KHz		Jauch	Q 0.032768-MMTF32-12.5-30			1
Connectors and jumpers and Switches	1	SW5	SPDT Slide Switch	3 pin Through Hole	APEM	APEM 25136NAH6	Farnell	1082285	1
	2	SW3	Push Button Switch	(6mm X 6mm) push button, Through Hole	TYCO ELECTRONIC S	FSM2JH	Farnell	Part# 1555981	1
	3	J1	JTAG Connector	Box Header, Straight 20way, 2x10pin, 2.54mmx2.54mm Pitch	Protectron	P9603-20-15-1			1
	4	CONN1	30 pin SMD connetor	SMD	Samtec	ZF1-30-01-T-WT	Samtec	ZF1-30-01-T-WT	1
	5	J8, J2, J9	HEADER, PIN, 2.54MM, Straight 2WAY, Single Row, Gold Flash	Single Row Straight, Through hole, 2pin	Protectron	P9101-02-12-1			3
	6	J7	SOCKET, DC POWER JACK, 2.5MM, Right Angle, Locking Type	Through Hole	Protectron	PDCJ01-08			1
	7	LCD CONN	HEADER, PIN, 2.54MM, Straight 16WAY, Single Row, Gold Flash	Single Row Straight, Through hole, 16pin	Protectron	P9101-16-12-1			1
	8	BT1	Battery CR2032 holder	Through Hole	Renata	HU2032-LF	Mouser	614-HU2032-LF	1
	9	J3,J4	HEADER, PIN, 2.54MM, Straight 6WAY, Single Row, Gold Flash	Single Row Straight, Through hole, 2pin	Protectron	P9101-06-12-1			2
LEDs	1	D6	LED Yellow Colour	SMD1206	OSRAM	LYN971-Z	Farnell	Part# 1226417	1
	2	D9	LED Green Colour	SMD1206	OSRAM	LGN971	Farnell	Part# 1226371	1
	3	D10	LED Red Colour	SMD1206	DIALIGHT Corporation	5988210107F	Farnell	Part# 1465997	1
Capacitors	1	C28	5pF	SMD0805	Any				1
	2	C31,C36	10pF	SMD0805	Any				2

	3	C32,C39	20pF	SMD0805	Any				2
	4	C34	82PF	SMD0805					1
	5	C24,C49,C51	1nF	SMD0805	Any				3
	6	C48,C50	22nF	SMD0805					2
	7	C33	47nF	SMD0805					1
	8	C14,C15,C16,C17,C18,C19,C20,C21,C22,C27,C35,C44,C47,C53,C56	100nF	SMD0805	Any				15
	9	C30	220nF	SMD0805	Any				1
	10	C40,C41	1uF/16V	SMD1206					2
	11	C38,C43	4.7uF/16V	EIA 3528-21/Size A					2
	12	C23	10uF	EIA 3528-21/Size A	Any				1
	13	C13,C45,C46,C52	10uF	EIA 3528-21/Size A	Any				4
	14	C29	22uF/25V	EIA 3528-21/Size B	Any				1
	15	C25, C42	47uF/16V	EIA 3528-21/Size C	Any				2
	16	C37	Aluminum Electrolytic Capacitors - SMD 330uF/10V	SMD Electrolytic, 6.3 mm Dia. x 11 mm L	Nichicon	UCD1A331MNL1GS	Mouser	647-UCD1A331MNL1GS	1
Inductors	1	L1	10uH	SMD	Any				
	2	L2	10uH/2.5A	SMD	Bourns	SDR1005-100ML	Mouser	652-SDR1005-100ML	1
Resistors	1	R1	DNM	SMD0805	Any				1
	2	R2,R13,R29,R39,R47	0	SMD0805	Any				5
	3	R3	180	SMD0805	Any				1
	4	R4	27k	SMD0805	Any				1
	6	R6,R10,R12,R14,R15,R16,R17,R18,R19,R20,R21,R22,R32,R44,R45,R55	10k	SMD0805	Any				16
	7	R7,R8	0.4	SMD0805	Any				2
	8	R9	100	SMD0805	Any				1
	9	R11,R50,R60	500	SMD0805	Any				3
	10	R25,R26	100k	SMD0805	Any				2
	11	R27,R56	1M	SMD0805	Any				2
	12	R28	DNM	SMD0805	Any				1
	13	R30,R31,R36,R37	4.7k	SMD0805	Any				4
	14	R33	150	SMD0805	Any				1

		2. The term equivalent has been used where the exact part number from the mentioned vendor may not have been used.			
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