

**Parts List**

**CS1215 Rev 1.4**

**World class Windows based security solutions**





## **This document contains a list of parts required for the CS1215 Rev 1.4 PCB**

- CS1215 Rev 1.4 Parts List
  - IC's
  - Diodes
  - Crystals
  - Resistors
  - Capacitors
  - Jumpers
  - Switches
  - Buzzers
  - Inductors
- Note to Manufacturer

## CS1215 Rev 1.4 Parts List



Part #	Description	KeyMatrix Outline/Package	Industry Outline/Package	Manufacturer + Code	Mounting Side	Mounting Method
IC1	78M05	369A-DPAK	DPAK – Case 369A	ON Semiconductor - MC78M05 Motorola – MC28M05DT	Component	Direct
IC2	AT89C4051	DIL20	DIP20 – 20 Pin Dual Inline Package	Atmel – AT89C4051-24PC	Solder	Direct
IC3	SN75176	DIL8	DIP8 – 8 Pin Dual Inline Package	Texas Instruments – SN75176BP	Solder	Direct
IC4	HTRC110	SO14	SOIC14 – 14 Pin Small Outline Package	Philips – HTRC110	Component	Direct
IC5	DS1814B-10	SOT23-5	SOT23 – 5 Pin	Dallas - DS1814B-10 Maxim – MAX824-EXK-L	Component	Direct
D1	HLMP-4000	LED2C	T-1 3/4 – Spread Pin – 5mm	HLMP-4000	Solder	
D2	S1M	DO-214AC	DO-214AC	1N4007	Component	
D3	Bipolar TranZorb SMBJ6.5CA	SMBJ	DO-214AA (SMB J-Bend)	General Semiconductor – SMBJ6.5CA - Bipolar	Component	
D4	Bipolar TranZorb SMBJ6.5CA	SMBJ	DO-214AA (SMB J-Bend)	General Semiconductor – SMBJ6.5CA – Bipolar	Component	

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Part #	Description	KeyMatrix Outline/Package	Industry Outline/Package	Manufacturer + Code	Mounting Side	Mounting Method
D5	TranZorb, SMBJ5.0A	SMBJ	DO-214AA (SMB J-Bend)	General Semiconductor – SMBJ5.0A - Unipolar	Component	
D6	TranZorb, SMBJ15A	SMBJ	DO-214AA (SMB J-Bend)	General Semiconductor – SMBJ15A – Unipolar	Component	
XT1	XTALH, 16MHz	XTAL_LP	HC-49/S	16MHz Crystal Oscillator	Solder	
R1	R0805, 4K7 ±5%	0805	0805		Component	
R2	R0805, 1k5 ±5%	0805	0805		Component	
R3	R0805, 4K7 ±5%	0805	0805		Component	
R4	R0805, 330R ±5%	0805	0805		Component	
R5	R0805, 330R ±5%	0805	0805		Component	
R6	R0805, 27R ±5%	0805	0805		Component	
R7	R0805, 1k5 ±5%	0805	0805		Component	
R8	R0805, 120K ±5%	0805	0805		Component	
R9	R0805, 27R ±5%	0805	0805		Component	

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Part #	Description	KeyMatrix Outline/Package	Industry Outline/Package	Manufacturer + Code	Mounting Side	Mounting Method
C1	CAP0805, 470nF $\pm 5\%$ , 16v	0805	0805		Component	
C2	CAP0805, 1nF $\pm 1\%$ , 16v	0805	0805		Component	
C3	CAPTANT, 10uF $\pm 5\%$ 25v	SMD_TANT_C	SMD Tantalum Case C (EIA Code 6032)		Component	
C4	CAP0805, 470nF $\pm 5\%$ , 16V	0805	0805		Component	
C5	CAPTANT, 10uF $\pm 5\%$ 25v	SMD_TANT_C	SMD Tantalum Case C (EIA Code 6032)		Component	
C6	CAP0805, 470nF $\pm 5\%$ , 16V	0805	0805		Component	
C7	CAP0805, 3.3nF $\pm 1\%$ 100v	0805	0805		Component	
C8	CAP0805, 100nF $\pm 5\%$ , 16V	0805	0805		Component	
C9	CAP0805, 100nF $\pm 5\%$ , 16V	0805	0805		Component	

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Part #	Description	KeyMatrix Outline/Package	Industry Outline/Package	Manufacturer + Code	Mounting Side	Mounting Method
C10	CAP0805, 33pF $\pm 1\%$ , 16V	0805	0805		Component	
C11	CAP0805, 33pF $\pm 1\%$ , 16V	0805	0805		Component	
C12	CAP0805, 470nF $\pm 5\%$ , 16V	0805	0805		Component	
C13	CAP0805, 1nF $\pm 1\%$ , 16V	0805	0805		Component	
C14	CAP0805, 1nF $\pm 1\%$ , 16V	0805	0805		Component	
J1	TBSIL2_1_5A	TBSIL4_1_5A	SMKDS 1/4-3.81	Phoenix Contact - SMKDS 1/4-3.81	Solder	
J3***	Antennae	Antennae			Component	
SW1	16 Way Rotary Dip Switch	SMD_ROTDS	Surface Mount Type	16 Way Rotary Switch	Solder	
BZ1	BUZZER	BUZZER_SM		SoundTech SEP-2220	Solder	

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Part #	Description	KeyMatrix Outline/Package	Industry Outline/Package	Manufacturer + Code	Mounting Side	Mounting Method
F1	BLM21A, 471SG	0805	0805	mUrata BLM21A	Component	
F3	BLM21A, 471SG	0805	0805	mUrata BLM21A	Component	



## Note to Manufacturer:

1. **Part #:** Refers to the Silk Screen Label On the PCB
2. **Description:** Is an informal description of the Component
3. **KeyMatrix Outline/Package:** Specifies the package and footprint name of the Component used internally at KeyMatrix.
4. **Industry Outline/Package:** Specifies the package/outline (case) code the component must be ordered in. Blank fields indicate that there is only one option for that component.
5. **Manufacturer + Code:** Specifies which manufacturer produces a component, and the code used by that manufacturer to refer to the component. When several manufacturers that produce the same component are listed, the component may be ordered from any one of them. When no manufacturer is specified for production of a certain component, any reputable manufacturer may be used.
6. **Mounting Side:** Indicates the following:
  - **Component** indicates that the Component is to be mounted on the Component side of the PCB
  - **Solder** indicates that the Component is to be mounted on the solder side of the PCB
7. **Mounting Method:** Indicates the following
  - **Direct** indicates that the Component is soldered directly onto the PCB. Components that have neither Direct nor Socket specified are mounted directly onto the PCB
  - **Socket** indicates that the Component requires an IC socket.
  - **Upside Down** indicates that the component is mounted such that the top of the component faces the board. Usually applies to LED's that are mounted across a hole in the PCB, so that the illuminating side of the LED can be seen from the other side of the board.