

BioSIMKey Technical Description

A. Circuit Operation

1. Touchchip finger image scanner
2. Smart Card (SIM) reader
3. USB interface
4. ST MCU as scanner/reader controller

B. Component description

Category	Number	Name	description
Integrated circuit	ST92163	Microcontroller	Control sensor & card reader
Integrated circuit	M24C16	EEPROM	Data storage
Sensor	TCS1AD	Touchchip	Image sensor
crystal	8MHz	20PPM crystal	ST92163 operation
Transistor	ZXM61P02F	MOSFET	Sensor power control
Transistor	2N3906	Small signal transistor	Card reader power control
Diode	1N4148	Switch Diode	Power LED