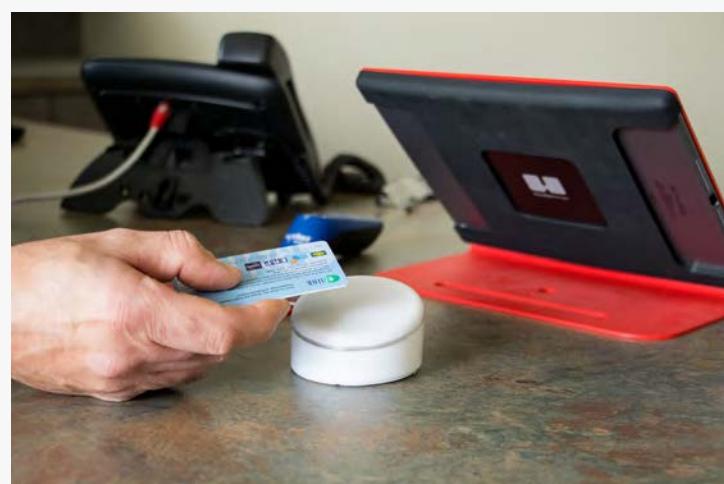# S550 CONTACTLESS MEMBERSHIP CARD READER/WRITER

Elegant

The SocketScan S550, a contactless membership card reader/writer, is designed to facilitate tap-and-go smart card and NFC applications. It combines the latest 13.56 MHz contactless technology with Bluetooth 5 connectivity.

The S550 supports ISO 14443 Type A and B smart cards, ISO 15693 tags, MIFARE®, FeliCa®, and most NFC tags and devices compliant with ISO 18092 standard. This makes the S550 ideal for a broad range of solutions, such as hands-free verification for physical and logical access control, and inventory tracking. The S550 supports two Bluetooth modes: HID Keyboard Emulation (for native App support) and App Mode (for custom App development using our capture SDK interface).

With a compact design and a rechargeable Lithium-ion battery for power, the S550 is extremely portable and convenient for use anytime, anywhere with most Bluetooth-enabled smartphones and tablets.

Features

- **Works with iOS, Android and Windows® Bluetooth-enabled devices**
- **Meets Accessory Design Guidelines for by Apple devices (Release R7) –** Compliant with Apple, Android, and Windows accessory recommendations.
    - **HID (Keyboard Emulation) profile available for native app support**
    - **Capture SDK available for custom app development.**
- **Reading** – Fast NFC & RFID Reader (HF tags, labels, smart devices).
- **Writing** – Write/Encode, lock, unlock tags.
- **Long Lasting Battery** - Power to last up to 16 hours.
- **User Feedback** - Intuitive LED indicators and melodies let users monitor battery, Bluetooth connection and scanning status at a glance.
- **HID Mode (default)** - No software installation required when using the NFC/RFID Reader & Writer in Bluetooth HID mode.
- **Application Integration –** Socket Mobile's Capture SDK enables easy integration in your applications to improve business productivity with fast, efficient and reliable data transfer over Bluetooth wireless technology.
- **Wireless (Bluetooth)** - Reading for iOS, Android and Windows mobile devices with long-range Bluetooth connection of 330 feet (100m).
- **Easy Updates -** The S550 firmware can be updated over Bluetooth using an iOS or Android app. A Library of PCSC Models and Reader templates is also provided to simplify designing with RFID technology.
- **Designed and assembled in the USA**
- **Developer Support Available**
- **1-Year Warranty**

(1) S550, Contactless Membership Card Reader/Writer
   SKU# TX3489-1984
(1) USB Charging Cable

READING PERFORMANCE

HF RFID Tags Supported:	• ISO15693: Vicinity Card • ISO/IEC 14443 A and B: Mifare, Sony FeliCA • Compliant with EPC GEN 2 HF and ISO 18000-3 mode 3 • ISO 18000-3 mode 3: EPC GEN 2 HF • NFC: ISO/IEC 18092 • ThinFilm: NFC Barcodes • Proprietary: Several • Peer-to-Peer • Card Emulation
Write Mode	Write mode is supported using the PCSC protocol over BLE. Compatibility is subject to the card type, content and authentication level. Please, contact Socket Mobile at support@socketmobile.com to discuss your requirements.
Maximum RFID Read Range:	0.4" - 2" (10 - 50 mm)

RFID READER TYPE

NFC/RFID front-end:	NXP PN5180
Carrier frequency:	13.56 MHz (RFID HF, NFC)
Read/Write Speed:	26 kbps (ISO 15693), 106kbps (ISO 14443, 212/424kbps (ISO 18092)
Antenna:	Integrated, 54mm x 40mm, balanced

BATTERY

Battery:	1000 mAh Lithium - Ion Battery
Charge Time:	4 Hours
Battery Life - Per Full Charge:	Standby time: 15 hours Active Operation: 2,400 reads
Note:	*Battery life varies depending on ambient temperature, read attempts, and age of battery.*

BLUETOOTH (WIRELESS CONNECTION) ₿

Bluetooth Radio:	Bluetooth, version 5
Bluetooth Range:	Up to 100 m (330 ft.) depending on environment, range limit is usually due to the Host Device (phone, tablet or notebook)
Bluetooth Connection:	Basic Mode – HID (Human Interface Device) Keyboard Emulation. Application Mode – RDR (RFID Reader only) and PC/SC (for Read & Write) enabled by the SDK. *Basic Mode is the Factory Reset (default) Bluetooth connection.*

PHYSICAL CHARACTERISTICS

Dimensions:	2(D) x 1.5 (H) in (50.8 mm x 63.5 mm)
Weight/Mass:	2.6 oz. (74g)
LEDs:	Four Quadrant LED Circle (full RGB) that meets the EMV "Common User Interface Guidelines" and provides intuitive feedback to the cardholder during normal operation and also can be used to simplify setup and status.
Buttons:	Trigger Button: Read & Write Power Button: On/Off (eject on-screen keyboard)
Power Connector:	USB 2.0 Micro - B

USER ENVIRONMENT

Operating Temperature:	-20° to 50° C (-4° to 122° F)
Storage Temperature:	-40° to 70° C (-40° to 158° F)
Relative Humidity:	95% at 60° C (140° F) (non-condensing)
Drop Specifications:	4 ft. drops to linoleum

OPERATING SYSTEM SUPPORT

Android OS - Basic Mode (HID) & Application Mode (*RDR and PC/SC*)*	Windows 10, 8, and 7 - Basic Mode (HID Keyboard Emulation)*
Apple iOS - Basic Mode (HID Keyboard Emulation) & Application Mode (RDR and PC/SC)*	Mac OS - Basic Mode (HID Keyboard Emulation)*

Basic Mode is the Factory Reset (default) Bluetooth profile.

Made for iOS, Android, or Windows devices with Bluetooth LE and Bluetooth 5

CERTIFICATION & REGULATORY

Bluetooth SIG:	Design ID: 83178
Electrical Safety:	Certified to IEC 60950-1, UL 60950-1, CAN/CSA C22.2
Environmental:	Environmental: RoHS EN 50581
EMI / RFI:	FCC Part 15 Class C, RSS 210, iCES 003, C-Tick, CISPR 22, CE EN55022, EN55024, TELEC FCC ID: LUBS550 IC ID: 2529A-S550 Contains: FCC ID: QOQBGM111; IC: 5123A-BGM111

Reader:	Standard one year limited warranty
Accessories:	90 days
Extended Warranty: (sold separately)	www.socketmobile.com/socketcare

Retail/Point of Sale	Warehouse management
Office use	Shipping & Receiving
Healthcare	Field Sales/Service
Mobile Tracking	