

STCG Series

User Manual

Smart Trading Card Game Board



STCG-01

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1. Product Overview

To address the operational inconveniences and complex gameplay experience in traditional card-based tabletop games, this product introduces an **NFC-based electronic battle board**.

Main Control Module: The operation of all modules within the electronic battle board, executing card battle rule computations, data processing, and command interactions. It establishes communication with the RFID module, audio module, storage module, and display module.

RFID Module: Communicates with the main control units to identify the status and information of game cards embedded with NFC chips.

Storage Module: Handles data storage and retrieval based on received instructions.

Audio Module: Drives audio output upon receiving audio control commands.

Display Module: Implements display control in response to received commands.

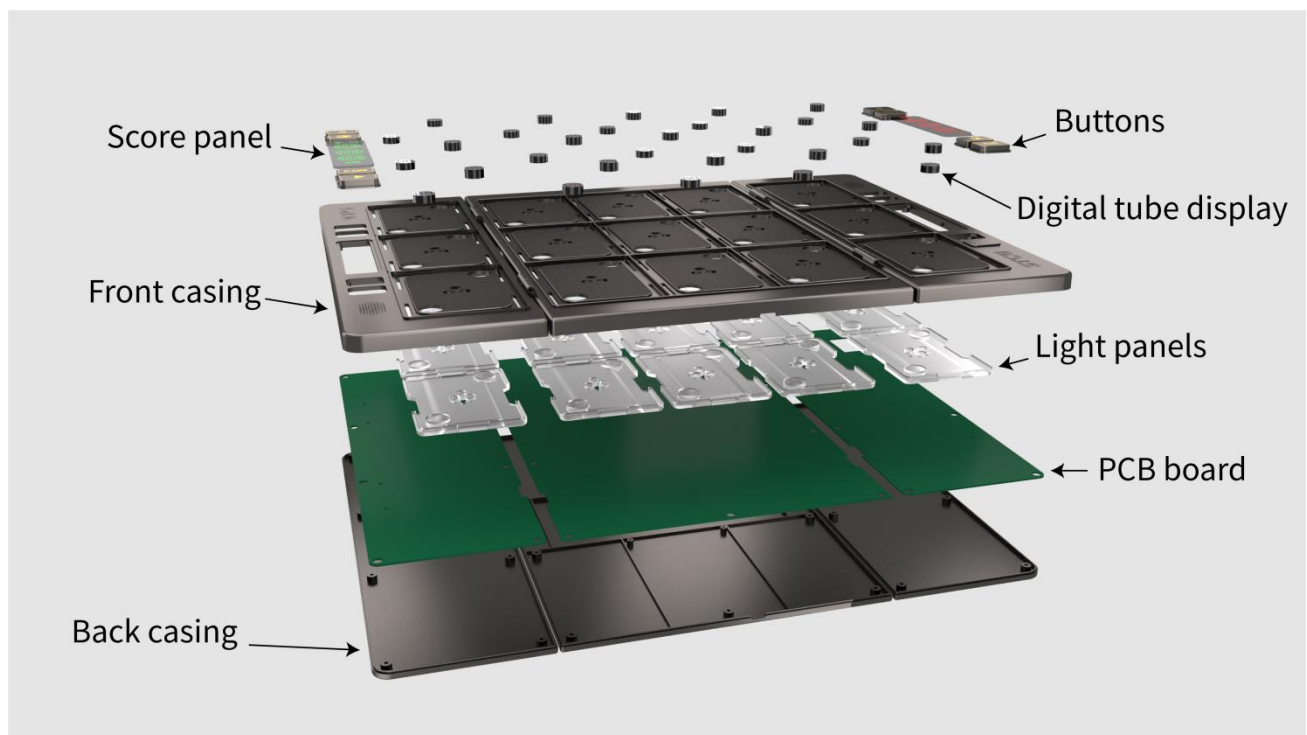
By adopting this technical solution, the RFID module, in coordination with the main control module, **accurately identifies the status and information of NFC-equipped game cards**. Based on the recognized card data, the system automatically determines skill trigger conditions (e.g., activating a combo skill when Card A and Card B are adjacent) and calculates battle scores (e.g., deducting X points from the opponent upon a successful attack or adding Y points for occupying a matrix block).

This eliminates manual calculations and judgments, transforming the battle process from an error-prone, human-dependent mode to a **system-driven, precise, and automated operation**, ensuring fairness and smoothness.

The audio module receives commands from the main control unit to drive audio output—for instance, playing a *confirmation sound* when a card is placed, a *special effect sound* when a skill is triggered, or a *notification sound* when points are scored. This enhances immersion from an auditory perspective, allowing players to intuitively perceive key gameplay moments.

The display module processes commands to control visual feedback. For example, digital tubes **display real-time battle scores**, replacing tedious and delayed manual scoring. Indicator lights reflect card status (e.g., lighting up when a card is selected or flashing when a skill activates), providing visual assistance for players to grasp the overall battle situation. This integration of visual and auditory elements **elevates interactivity and user experience**.

2.Product Components Introduction



1.Score panel	2.Front casing	3.Back casing
4.Buttons	5.Digital tube display	6.Light panels
7.PCB board		

3. Packaging Contents

Smart Tradable Card Game Battle Device

Data Cable

4.Operating Instructions

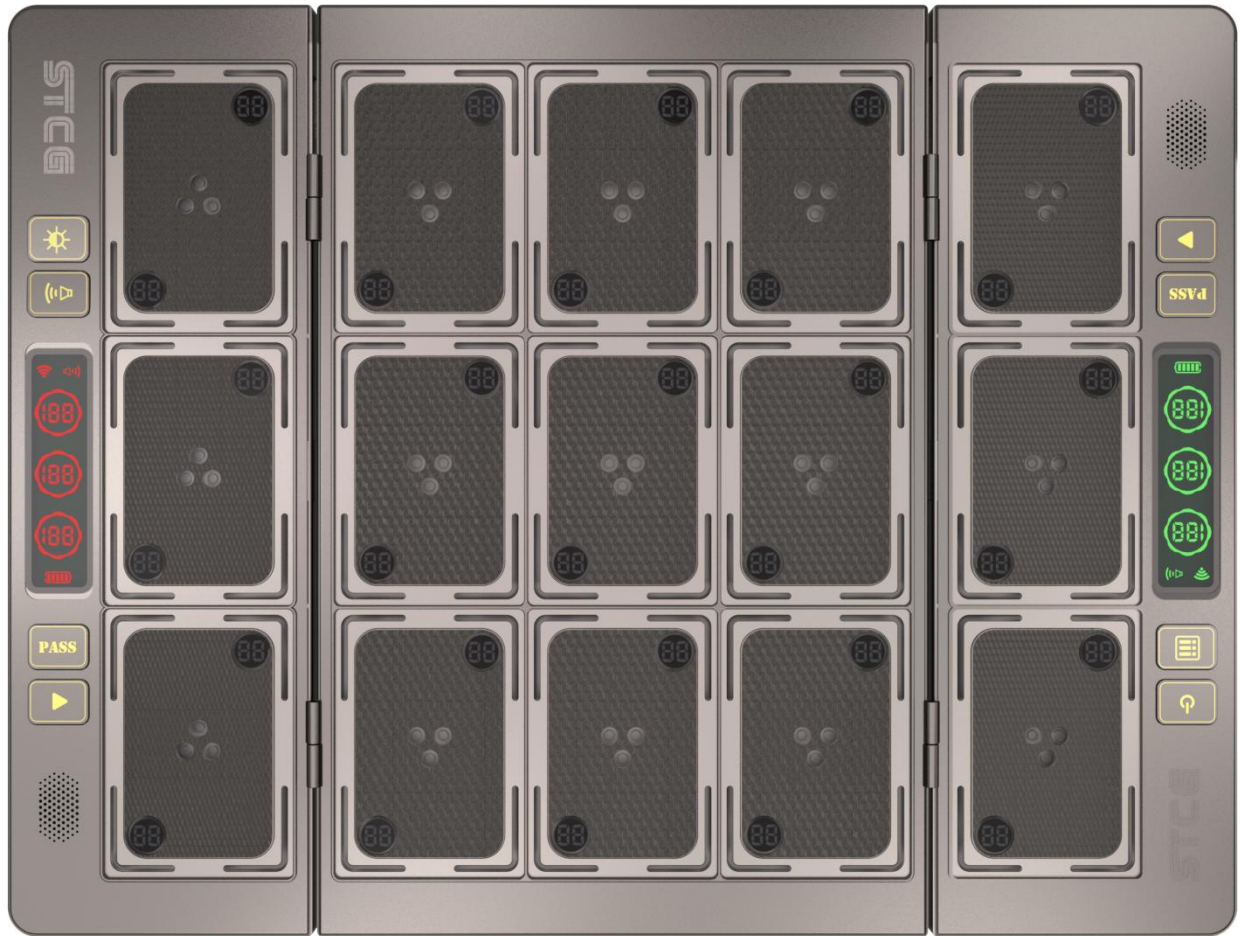
4.1. Warnings

- (1) Do not charge the device for extended periods to prevent overcharging and potential fire hazards.
- (2) The device integrates precision electronic components. Avoid dropping, impacting, or subjecting the device and its accessories to excessive vibration to prevent structural damage or misalignment.
- (3) Do not disassemble the device. For malfunctions, contact professional repair services.
- (4) Charge the device promptly when the battery is low or if it will not be used for an extended period to prevent deep discharge damage.
- (5) Using the device outside specified operating conditions may cause damage.

4.2. Precautions

- (1) When cleaning the device surface, do not use chemical solvents or thinners. Wipe the exterior with a clean, soft, and dry cloth.
- (2) Avoid contact with liquids, chemicals, or other contaminants that may damage the device during use.
- (3) After use or if the device remains powered on without use for an extended period, turn off the power to prolong its lifespan.

5. Button Functions



Brightness Adjustment Button:

When powered on, briefly press to adjust display brightness. Three brightness levels are available in cyclic order.



Volume Adjustment Button:

When powered on, briefly press to adjust volume. Four volume levels are available in cyclic order.



Menu Button:

- (1) When powered on, briefly press to switch game modes.

(2) When powered on, press simultaneously with the Volume Button to enable Wi-Fi connection mode.



Power Button:

Hold for 3 seconds to turn on the device. When powered on, hold for 3 seconds again to initiate shutdown countdown.



Confirm Button:

(1) When powered on, briefly press to confirm the end of a card play and switch to the opponent's turn.

(2) When powered on, press simultaneously with the Confirm Button on the opposite side to enable normal gameplay mode.



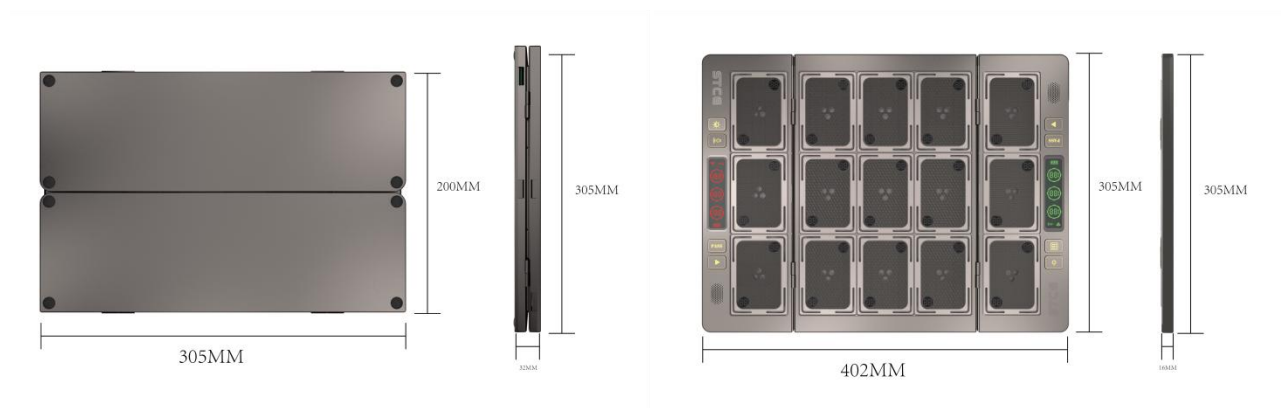
Pass Turn Button:

When powered on, briefly press to skip the card play phase and switch to the opponent's turn.

6. Menu Functions

	Wifi	Enable Wi-Fi using the key combination, then turn on your phone's Wi-Fi. Search for the mobile Wi-Fi MAC address (displayed as "_*") and enter the password "12345678" to connect.
	Volume Display	Shows volume level; adjustable across four levels
	Battery Display	Shows device battery level information
	Score Display	Displays current battle scores

7. Specifications



Attribute	Value
Product Name	Smart Tradable Card Game, Smart TCG
Model Number	LT-001
Brand	STCG
Production Date	2025/12/31
Warranty Period	1 Years
Product Dimensions	305 * 200 * 32mm
Package Dimensions	350 * 235 * 57mm
Product Weight	1.31kg
Main Materials	ABS Plastic, Electronic Components
Product Color	Gray / Silver
Recommended Age	6 years and above
Battery Capacity	3.7V 3200mAh
Charging Case Port	Type-C
Manufacturer	Shenzhen Lingtong Cultural & Creative Co., Ltd.
Factory	Zhongshan Xinjiyuan Electronic Technology Co., Ltd.
Website	www.s-tcg.com

8. Maintenance and Care

- (1) Turn off the device after use or if it remains idle while powered on to extend its lifespan.
- (2) Avoid contact with liquids, chemicals, or other contaminants during use.
- (3) When not in use or during transport, power off the device and store it securely.
- (4) For long-term storage, keep the device in a cool, dry environment.
- (5) Do not use chemical solvents or thinners to clean the casing. Wipe with a clean, soft, dry cloth.
- (6) If the device is unused for an extended period, power it on and perform a calibration check at least once every two months, and recharge the battery.

9. FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.