

Biometric payment terminal

# LUNA POS-CARD

## TECHNICAL DETAILS

Model LPC-0001  
or LUNA POS C



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# Overview

**LUNA POS-Card combines payment terminal with function of card payments and biometric device based on face recognition technology used for payments and loyalty program access.**

Terminal LUNA POS-Card allows a smooth upgrade of payment process whereas face recognition algorithms and liveness check help to make payment quick and secure. The Terminal supports all the existing modern ways of payment — cards with magnet stripe, contactless payment and NFC — and can use client's face as primary or additional factor of person's verification.

LUNA POS-Card functionality is enough to fully replace usual payment terminals that do not support biometrics. The Terminal can be easily integrated into the existing CRM-system and can be managed by the cashier from the cash desk in a regular way. Seamless transition to the new system is guaranteed since the Terminal is simple to use both for cashier and client. The client will see hints on the display whenever using the Terminal for payment.

When payment process is started, the Terminal captures the bestshot of client's face and sends it to the server with VisionLabs software LUNA PLATFORM Enterprise for processing. LUNA POS-Card does not operate in offline mode and does not store or manage neither face images or descriptors that were captured by it nor any other types of personal data.

Data exchange with external system/devices is possible through API. Please, refer to the Part V of the present document to learn more about the workflow and interaction of the Terminal with client's CRM.

Connection interfaces allow to use LUNA POS for displaying marketing information in photo and video formats.

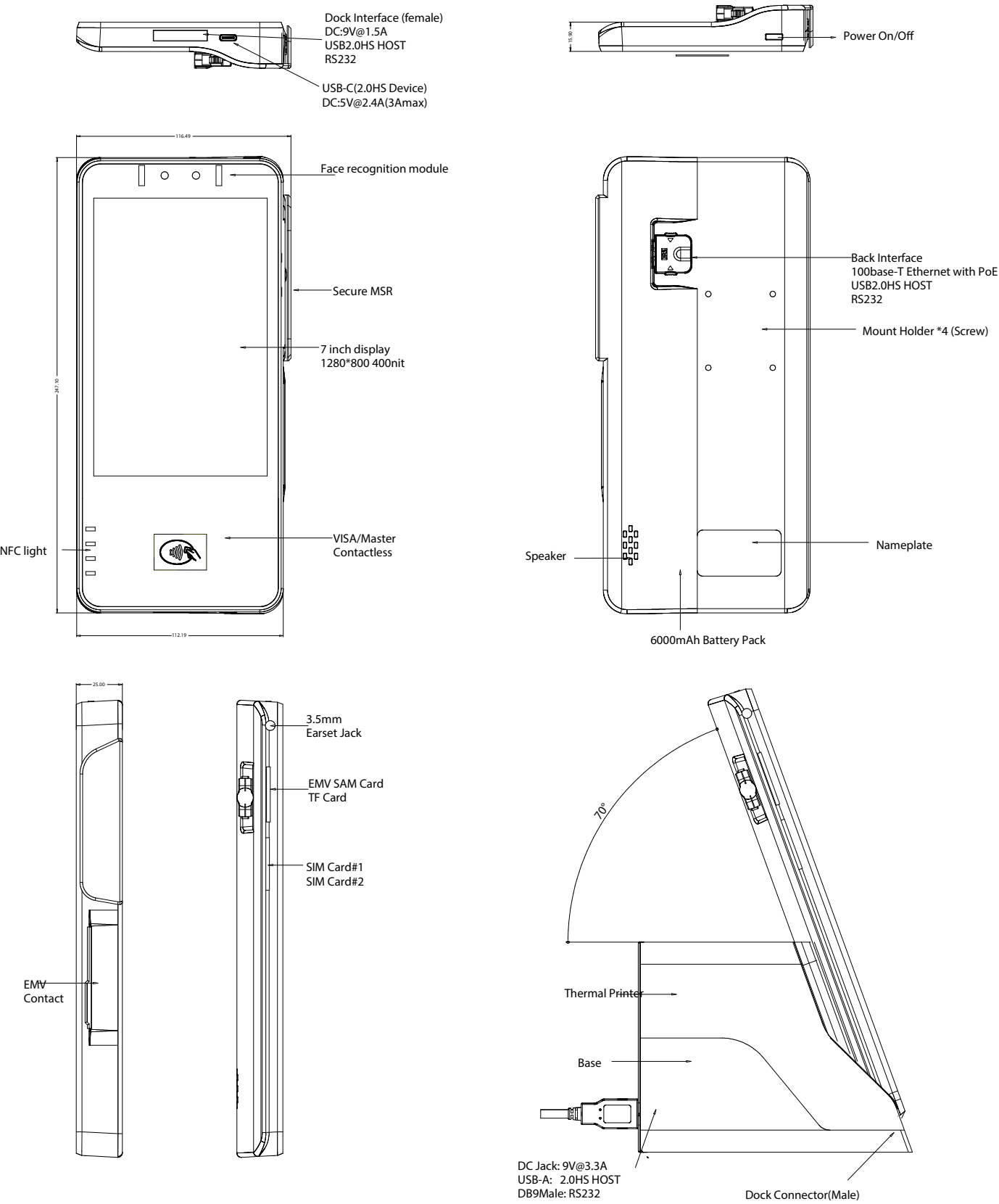
# Delivery set

## **The delivery set includes:**

1. Terminal LUNA POS-Card – 1 pcs.
2. Dock-station – 1 pcs.
3. AC/DC adaptor – 1 pcs.
4. USB-adaptor with Type-C cable – 1 pcs.
5. PoE Ethernet cable – 1 pcs.
6. ST18 to RJ45 + USBH + RS232 – 1 pcs.

# Hardware

## OUTLINE



## MAIN COMPONENTS

N. Item	Description
1 Touchscreen Display	Used to configure and manage the device
2 Speaker	Used for voice communication.
3 Face recognition module	Videocamera generates a face image IR camera generates an image for liveness verification
4 Secure MSR	Used for MagneticStripe payment
5 Sensor for contactless payment	Used for contactless payment
6 NFC	Used for payments with smart devices that support NFC technology

## TECHNICAL FEATURES

Main SoC	Qualcomm SC200Y-EU Based on Qualcomm 8953LE ( Snapdragon 625LE )	14nm FF ARM Cortex A53 Octa-Core@1.8Ghz Adreno 506 @600MHz
OS	Android 9.0	
HW Encoder/Decoder	1920*1080@60fps	
Storage	DDR3L+EMMC5.1	2GB+16GB
Wi-Fi	802.11a/b/g/n	
BT	BT4.2/BLE	
GNSS	GPS/GLONASS/BeiDou	
2G/3G/LTE	FDD: B1/B2/B3/B5/B7/B8/B20/B28A TDD: B38/B41 WCDMA:B1/B2/B5/B8 GSM: 850/900/1800/1900MHz	
Display	7" IPS LCD 1024*600 Or 7" IPS LCD 1280*800	-20 – 70°C  -20 – 60 °C
Touch Screen	Captive multi touch G+G	Privacy protection film For PCIPTS
Face Camera	2-lenses MIPI module for face biometric	
Sensor	Light & proximity 6-axis motion	
MIC	Dual	Speech recognition (Noise cancel)
Audio Jack	3.5mm with MIC in	
Speaker	8ohm 2W	
Battery	4000mah 3.65V 5000mah 3.7V (Optional)	
Power Connector	Dock Station (USB+RS232+Power)	
Ethernet	From Addon Chipset	USB
PoE	Power Over Ethernet	
Secure IC	Maxim MAX32552/32560	PCIPTS pre-certified RTOS
Magnetic Card	1/2/3 magnetic stripes	
EMV Card	ISO7816\EMV 4.3\PBOC3.0	
ISO7816 SAM	ISO7816\EMV 4.3\PBOC3.0	
EMV Contactless	ISO14443AB\EMVCL 3.0	NXP/MAXIM
Dimensions	247x117x25 mm	

# Maintenance, storage and recycling

Do not install the Terminal close to other equipment that generates a significant magnetic field (electrical motors for elevators, transformer shield etc.)

Working temperature and humidity must be within the limits indicated in the technical specifications.

The image on the screen might be blurred if the camera lens is not clean. Mind that while choosing the installation site.

Lens cleaning should be done when necessary. The image quality degrades if the lens is not cleaned.

The transportation of the Terminal must be performed using manufacturer's or any other similar packaging.

Storage temperature is +10...+80°C with 90% of relative humidity.

The Terminal does not create life, health or environment danger. The device can be recycled without any special recycling techniques.



# Manufacturer warranty

The manufacturer guarantees the Covered Product is free from defects and operates properly for a period of twelve (12) months from the date of purchase, but for no more than thirty six (36) months from the date of manufacturing if installation and maintenance recommendations presented in this document were met.

If the date of purchase cannot be confirmed, warranty period starts from the date of manufacturing.

This warranty does not apply to any costs, repairs or services for the following:

- instructions given in this document were violated;
- the Terminal was misused;
- firmware flashing;
- the Terminal has damages caused by mechanical, thermal or chemical influence
- high voltage
- damage caused by fire, floods, earthquake or acts of God

Damaged or removed warranty seal voids the warranty.