GREEN CENTER

GP4M
GP4MC
GP4MS v2

PAYMENT KIOSKS – API VARIANT

Payment Kiosks – API Variant

GREEN CENTER

General Specifications and Use

This is a universal kiosk designed for custom client applications.

Kiosk use examples:

- payment of hospital or other charges
- purchase of tickets
- reward payout (e.g. for plasma donation)
- ...

The kiosk is available in GP4M, GP4MC and GP4MS v2.

API Variant Specifications

The device includes:

- HW of the cash register and selected peripherals
- API for the Control of Peripherals
- communication interface for the client application

The custom client application should include:

- GUI displayed on the cash register display
- cash register settings and required fees
- service menu (cash withdrawal, maintenance)
- saving of receipts

The custom application is provided by the customer or can be ordered as a custom development in the Green Center. In this case, it will be priced according to the customer's requirements.
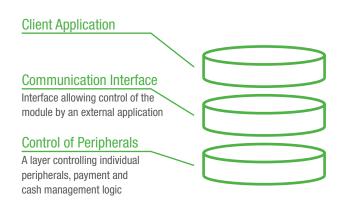
Communication Interface

The communication interface for the implementation of a custom application supports:

- gRPC (Remote Procedure Call framework using Protocol Buffers for serialisation and data transfer using HTTP protocol)
- two-way communication and servicing several clients simultaneously
- support for the most commonly used programming languages (C#, C++, Java, Node, PHP, Python, Ruby...)
- description of the interface using .proto files, from which the communication implementation in the selected language is automatically generated

API for the Control of Peripherals

The following actions are available:

- IO peripherals operation
  - buttons
  - navigation arrows

- Payment
  - payment processing (cash/card)
  - cancellation, change of payment method
  - payment progress information

- Printing
  - simple documents (text and 2D code)
  - alignment of individual parts of the document
  - font selection

- Coin holder, banknote reader and recycler
  - information on the cash balance
  - topping up or paying out cash
  - cash register selection
  - ensuring persistence between software reboots
  - management of accepted denominations

- HW status reporting
  - equipment malfunctions
  - low cash balance
  - paper running out in the printer
  - full cash register
  - opened entrance doors
  - removed cash register

Client Application

Communication Interface
Interface allowing control of the module by an external application

Control of Peripherals
A layer controlling individual peripherals, payment and cash management logic

The Green Center delivery includes documentation for the kiosk communication interface. A signed NDA is required to provide this documentation.