

GP4M
GP4MC
GP4MS v2

PAYMENT KIOSKS – API VARIANT



General Specifications and Use

This is a universal kiosk designed for custom applications.

Kiosk use examples:

- ☐ payment of hospital or other charges
- ☐ purchase of tickets
- ☐ disbursement of rewards (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 parent application

The custom application should include:

- ☐ GUI of the application, which is displayed on the cash register display
- ☐ cash register settings and required fees
- ☐ service menu (cash withdrawal, service and 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

For the implementation of a custom application, a communication interface that meets:

- ☐ 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
 - ☐ payments (cash/card)
 - ☐ cancellation, change of payment method
 - ☐ informing about progress
- Printing:
 - ☐ simple documents (text and 2D code)
 - ☐ alignment of individual parts of the document
 - ☐ font selection
- Money holders (coin holder, banknote 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 and payment and cash management logic



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