

# Mobile Pass Device

## OVERVIEW

In the MobilePass Project, a versatile, secure and mobile check device for border guards was developed. It is a prototype which shows functionalities like contactless fingerprint scanning, MRZ reading with a camera and facial verification. It has a specialized hardware and ergonomics design optimally suited for Border guards' use. It can be operated attached to the wrist, leaving both hands free for passport handling and also with one hand for biometric operations. The hardware includes a high-resolution camera, a quad core CPU and an accelerator FPGA. For fingerprint scanning a special LED light system improves image quality. A large and sunlight readable display with touch support and a colored multi wheel makes it very comfortable for one handed operations. The operating system is a special adapted Linux version with a system boot time of less than 15 seconds. High connectivity features like BT LE, Wi-Fi and 4G help for integration into other IT systems. It is based on a heterogeneous platform system.



## FUNCTIONALITY

### Border check workflow status display

For a typical border control application several checks have to be made. The application is optimized to the typical check flow at the border. As shown on an example below the actual status of the travelers check process is marked on the right side with red (not successful) and green (successful) symbols. There are symbols for the authenticity of passport and the Visa, for the facial and fingerprint verification and for the database check results (Schengen information system, Visa Information system, Interpol database and national databases).



