# HANDHELD DEVICE, SMART CARD INTERFACE DEVICE (IFD) AND DATA TRANSMISSION METHOD

## ABSTRACT

A smart card interface device (7) which can be installed in an expansion slot (2) of a handheld device (1) is disclosed. The smart card interface (7) comprises a host interface unit (10) for connecting with I/O ports (6) included in the expansion slot (2) of the handheld device (1) so as to receive/send serial communication data signals and clock signals from/to said I/O ports. The interface (7) also comprises a first smart card connector provided at a surface of said smart card interface device (7), for electrically connecting with a smart card of the first type and a first smart card interface unit (12) for detecting whether a smart card of the first type has been connected to said first smart card connector (14) and for driving the smart card of the first type being connected. The smart card interface (7) also comprises a protocol implementation unit (11) for controlling each component of said smart card interface device (7).

Fig. 3