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# CHIPDRIVE® pinpad

CHIPDRIVE® mobile

CHIPDRIVE® extern

CHIPDRIVE® micro

CHIPDRIVE® keyboard



## Class 2 smart card reader with integrated keypad

### Overview

The CHIPDRIVE pinpad is primarily suitable for HBCI home banking applications, as the PIN can be entered on the reader's keypad. This ensures that the PIN data is passed directly from the reader to the smart card without being routed through the PC. The device supports PIN entry with both illuminated indicators and audio signals and features two LEDs for signalling the PIN acceptance and smart card access.

- Numeric keypad with 3 function keys
- Two LED indicators
- Indication of secure PIN entry (visual, audio)
- Supports T=0, T=1, 2-wire, 3-wire and I2C protocols and over 40 memory cards
- Fully compliant with ISO 7816
- RS232 or USB interface
- Comprehensive driver support
- Compatible with the CHIPDRIVE family and its existing applications

Product  
Info



**TOWITOKO**  
German Technology

# CHIPDRIVE® pinpad

|                      |  |
|----------------------|--|
| Interface            | PC, serial port, RS232, V.24 (CDM 200)<br>or USB, V1.1 full-speed (CDM 230)  |
| Power supply         | PS/2 (only CDM 200)  |
| Display              | Two status LED   |
| PIN (red)            | PIN accepted   |
| Card (yellow)        | Smart card is being accessed   |
| Connection cable     | 120 cm, black  |
| EMI compatibility    | CE 89/336  |
| Temperature range    | -10 bis +50 °C   |
| Card interface life  | 50,000 mating cycles   |
| Contact material     | Gold plated brass  |
| Standards            | ISO 7816-3 ff., GSM 11.11  |
| Card frequency       | 3,57 MHz   |
| Card current supply  | 0 to 35 mA   |
| Protocols            | T=0, T=1, 2-wire, 3-wire, I2C,<br>over 40 memory card types  |
| Interface speed      | T=0: 4,800 .. 38,400 Baud (PTS)<br>T=1: 4,800 .. 115,200 Baud (PTS)<br>Sync. protocols:<br>4800 .. 115200 Baud   |
| System compatibility |  |
| serial               | Windows 95/98, Me, NT 4.0, 2000, XP  |
| USB                  | Windows 98 SE, Me, 2000, XP  |
| API standards        | PC/SC (Microsoft)<br>NETS (Singapore)<br>OCF (OpenCard Framework)<br>CT-API V1.1<br>- MKT/BCS<br>- partial B1 command set<br>- EUTELIS compatible<br>SCARD interface |
| Special features     | Plug & Play compatible   |
| Application software | Towitoko can also provide a wide range<br>of smart card application software   |
| Shipping contents    | CHIPDRIVE pinpad<br>connection cable as shown  |



PS/2 COM-Port (serial)  
CHIPDRIVE CDM 200



USB-Port  
CHIPDRIVE CDM 230