

TECHNICAL DATA

Interface	PC, serial connection RS232, V.24
Power supply	from serial port, buffered by maintenance free NiMH battery
Display	red status LED
Dimensions	66 x 48 x 11 mm
Body color	RAL 7035 (light gray)
Printable area	56 x 38 mm (2/0 to 4/4 colors)
Connection cable	120 cm, 9 pol. SUB-D, black
Mass	about 110 grams
EMI compatibility	CE 89/336
Temperature range	-10 to +50 °C
Card interface life	50.000 mating cycles
Contact material	gold plated brass
Standards	ISO 7816-3 ff., EMV3.0, GSM11.11
Card frequency	3,57 MHz
Card current supply	0 to 55 mA
Protocols	T=0, T=1, 2-Wire, 3-Wire, I2C, over 40 memory card types
Interface speed	T=0: 4800 .. 38400 Baud (PTS) T=1: 4800 .. 115200 Baud (PTS) Sync. protocols: 4800 .. 115200
CPU type	4 MHz Microchip controller
System compatibility	Windows® 3.11, Windows® 95, Windows NT™
API standards	PC/SC Microsoft i.p., NETS (Singapore), OCF (OpenCard Framework), CT-API V1.1 - MKT/BCS - partial B1 command set - EUTELIS compatible SCARD interface ORGA emulation (T=1)
Special features	Plug & Play compatible; integrated mouse passthru; two M3 mounting threads; environment friendly NiMH rechargeable battery for card current supply
Application software (optional)	SIM-Surf® ValueCard Station (GeldKarte), SmartCard Explorer, PC-Security with NT-Login Timekeeping InternetCard (Internet ID)
OEM-packaging	PE-bag 120 x 160 mm
Shipping contents	CHIPDRIVE micro+, connection cable as shown, installation guide sheet two adhesive pads
Shipping units	120 pcs. per cardboard box, 16 boxes per palette (1920)

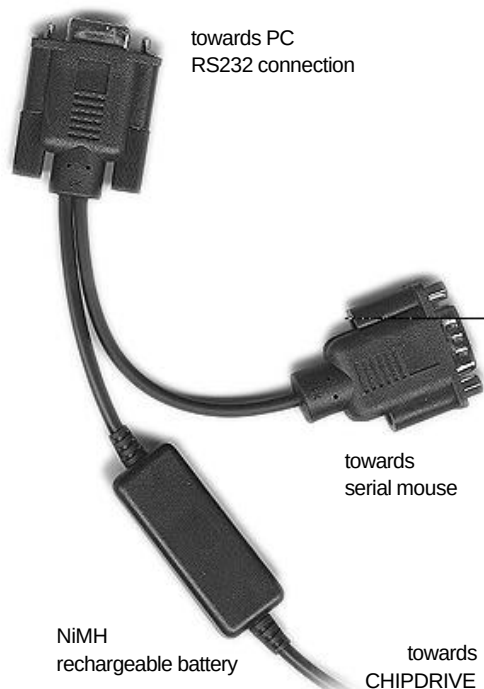
DESCRIPTION

With its pleasing design and the attractive pricing this terminal becomes the favorite choice for all mass applications. The patent pending solution allowing the shared use of a single serial port for mouse and terminal means a significant benefit for the ease of making existing PC systems smartcard ready.

Another unique feature is the clever power management utilizing a environmentally friendly NiMH type rechargeable battery securing the current supply for the card in all conditions.



The connection of the terminal is simple and does not occupy an extra serial port. Just connect the reader between the PC and serial mouse.



TECHNICAL DATA

Interface	PC, serial connection RS232, TTL signal levels
Power supply	from serial port, optional connection for a 9V battery
Display	red status LED
Dimensions	66 x 48 x 11 mm
Body color	RAL 7035 (light gray)
Printable area	56 x 38 mm (2/0 to 4/4 colors)
Connection cable	120 cm, 9 pol. SUB-D, black
Mass	about 70 grams
EMI compatibility	CE 89/336
Temperature range	-10 to +50 °C
Card interface life	50.000 mating cycles
Contact material	gold plated brass
Standards	ISO 7816-3 ff., EMV3.0, GSM11.11
Card frequency	3,57 MHz
Card current supply	0 to 10 mA without battery 0 to 55 mA with battery connected
Protocols	T=0, T=1, error handling T=1 only, 2-Wire, 3-Wire, I2C, over 40 memory card types
ATR parameters	TA1=0x11, TC1=0x00
Interface speed	T=0: 9600 Baud T=1: 9600 Baud Sync. protocols: 9600 Baud
CPU type	4 MHz Microchip controller
System compatibility	Windows® 3.11, Windows® 95, Windows NT™
API standards	PC/SC Microsoft i.p., NETS (Singapore), OCF (OpenCard Framework), CT-API V1.1 - MKT/BCS - partial B1 command set - EUTELIS compatible SCARD interface ORGA emulation (T=1)
Special features	Plug & Play compatible; two M3 mounting threads;
Application software (optional)	SIM-Surf® ValueCard Station (GeldKarte), SmartCard Explorer, PC-Security with NT-Login Timekeeping InternetCard (Internet ID)
OEM-packaging	PE-bag 120 x 160 mm
Shipping contents	CHIPDRIVE micro+, connection cable as shown, installation guide sheet two adhesive pads
Shipping units	120 pcs. per cardboard box, 16 boxes per palette (1920)

DESCRIPTION

With its pleasing design and the most competitive pricing this terminal becomes the most favorite choice for cost sensitive mass applications. With the supply current for the card drawn from the serial port CHIPDRIVE micro is designed for handling low power CMOS cards such as e.g. commonly used for GSM applications (SIM).



The terminal is connected to the PC through a serial port.



TECHNICAL DATA

Interface	PC, serial connection RS232, V.24
Power supply	from serial port, buffered by maintenance free NiMH battery
Display	three color status LED. red / yellow / green
Dimensions	70 x 100 x 70 mm (LWH)
Body color	RAL 7024 (dark gray) RAL 1028 (orange - yellow)
Printable area	69 x 79 mm (1/0 to 2/0 colors)
Connection cable	120 cm, 9 pol. SUB-D, black
Mass	660 grams
EMI compatibility	CE 89/336
Temperature range	-10 to +50 °C
Card interface life	200.000 mating cycles
Contact material	gold plated brass
Standards	ISO 7816-3 ff., EMV3.0, GSM11.11
Card frequency	3,57 MHz
Card current supply	0 to 55 mA
Protocols	T=0, T=1, 2-Wire, 3-Wire, I2C, over 40 memory card types
Interface speed	T=0: 4800 .. 38400 Baud (PTS) T=1: 4800 .. 115200 Baud (PTS) Sync. protocols: 4800 .. 115200
CPU type	4 MHz Microchip controller
System compatibility	Windows® 3.11, Windows® 95, Windows NT™
API standards	PC/SC Microsoft i.p., NETS (Singapore), OCF (OpenCard Framework), CT-API V1.1 - MKT/BCS - partial B1 command set - EUTELIS compatible SCARD interface ORGA emulation (T=1)
Special features	Plug & Play compatible; integrated mouse passthru; environment friendly NiMH rechargeable battery for card current supply
Application software (optional)	SIM-Surf® ValueCard Station (GeldKarte), SmartCard Explorer, PC-Security with NT-Login Timekeeping InternetCard (Internet ID)
OEM-packaging	cardboard box 110 x 102 x 75 mm
Shipping contents	CHIPDRIVE extern, connection cable as shown, installation guide sheet
Shipping units	20 pcs. per cardboard box, 50 boxes per palette (1000)

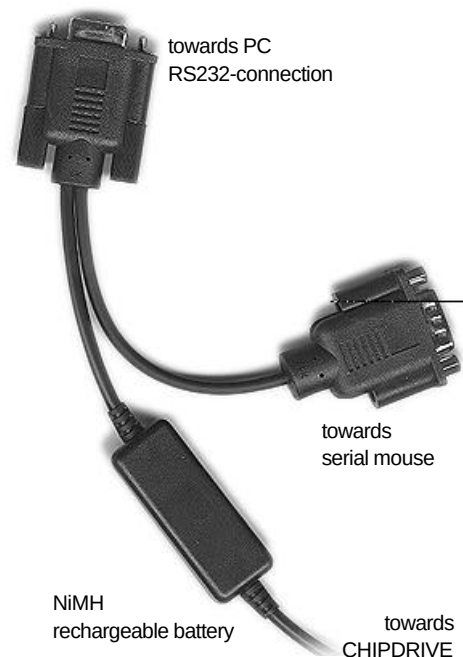
DESCRIPTION

This rugged desktop terminal has become famous for its remarkable design. the ergonomically card insertion angel of 45° and the heavy and stable steel base (the total mass of the unit exceeds 600 grams) significantly improve the handling convenience. A three color light displays the status information.

Special attention is to be drawn on the intelligent power management system utilizing a rechargeable NiMH battery. The battery is kept in full charge by the processor controlled circuitry and ensures the reliable handling of cards even with high power requirements. No bulky AC adapter or additional cabling is required for operation.



The connection of the terminal is simple and does not occupy an extra serial port. Just connect the reader between the PC and serial mouse.



TECHNICAL DATA

Interface	PC, serial connection, RS232 with TTL signal levels
Power supply	drawn from serial port, buffered by maintenance free NiMH battery
Dimensions	118 x 80 x 120 mm
Body color	RAL 7035 (light gray)
Printable area	75 x 42 mm (2/0 to 4/4 colors) 75 x 45 mm (2/0 to 4/4 colors)
Connection cable	150 cm, 9 pol. SUB-D, black
Mass	550 grams
EMI compatibility	CE 89/336
Temperature range	-10 to +50 °C
Card interface life	200.000 mating cycles
Contact material	gold plated brass
Standards	ISO 7816-3 ff., EMV3.0, GSM11.11
Card frequency	3,57 MHz
Card current supply	0 to 25 mA
Protocols	T=0, T=1, 2-Wire, 3-Wire, I2C, over 40 memory card types
Interface speed	T=0: 9600 Baud T=1: 9600 Baud Sync. protocols: 9600 .. 115200 Baud
CPU type	4 MHz Microchip controller
System compatibility	Windows® 3.11, Windows® 95, Windows NT™
API standards	PC/SC Microsoft i.p., NETS (Singapore), OCF (OpenCard Framework), CT-API V1.1 - MKT/BCS - partial B1 command set - EUTELIS compatible SCARD interface ORGA emulation (T=1)
Special features	two independent reader units; environment friendly NiMH rechargeable battery for card current supply
Application software (optional)	SIM-Surf® ValueCard Station (GeldKarte), SmartCard Explorer, PC-Security with NT-Login Timekeeping InternetCard (Internet ID)
OEM-packaging	cardboard box 133 x 125 x 90 mm
Shipping contents	CHIPDRIVE twin; connection cable; 25-9 pin adapter installation guide sheet
Shipping units	16 pcs. per cardboard box, 50 boxes per palette (800)

DESCRIPTION

CHIPDRIVE twin contains two separate smartcard interface boards which can be individually accessed through a single serial connection. The terminal is designed for applications which demand a authentication procedure between two simultaneously present smartcards (i.e. medical data cards with doctor and patient card or purse cards for fund transfers).

Another unique feature is the clever power management utilizing a environmentally friendly NiMH type rechargeable battery securing the current supply for the card under all conditions.



TECHNICAL DATA

Interfaces	one card interface for standard cards, one card interface for mini-SIM cards, IrDA-Interface (proprietary protocol)
Power supply	two AAA-size batteries
Display	LCD, 128 x 64 pixel, graphics capable TrueType fonts, bitmaps
Keyboard	16 key membrane keyboard menu keys and digit keys
Dimensions	110 x 78 x 20 mm
Body color	dark blue
Printable area	Rear side 75 x 42 mm (2/0 colors)
Mass	150 grams
EMI Compliance	CE 89/336
Temperature range	-10 to +50 °C
Card interface life	200.000 insertion cycles
Contact material	gold plated brass
Standards	ISO 7816-3, EMV3.0, GSM11.11
Card frequency	3,57 MHz
Card power supply	2 x 0 to 25 mA
Protocols	T=0, T=1, 2-Wire, 3-Wire, I2C
CPU type	4 MHz Microchip controller
Battery life	250 hours continuous operation or 2 years standby
Program- / Data- memory	8 to 256 Kbyte EEPROM
Additional memory for data tables	0 to 4 Mbyte RAM or FLASH
Real time clock	time, date, alarm functions
Special features	two independent reader units large graphics display rugged housing for field use compact size price of abt. 80 \$US @ 10 K pcs.
Accessories	download service cards Windows compiler docking station with IrDA PC interface
OEM-Packaging	cardboard box 120 x 85 x 40 mm
Shipping contents	CHIPDRIVE mobile; two batteries (AAA-size); short instruction guide

DESCRIPTION

CHIPDRIVE mobile is the portable member of the CHIPDRIVE family. The large display and the compact size make this device the favorite choice for all mobile applications, where data contents of smartcards must be displayed in clear form.

The terminal software can be downloaded. Programs can be created and compiled on any PC and the transfer is done via service card or IrDA interface.

The built in mini-SIM interface allows the use for applications requiring a SAM (Secure Access Module) i.e. within payment or authorization applications.

The devices can exchange information among each other or with an PC via the IrDA communication link. The large capacity memory allows to collect large extensive amounts of information for central processing.



The keyboard is easy to operate and requires very low activation force. Besides the numerical entries the digit keys can be used for entering alphanumeric characters using the well known multiple assignment commonly used with portable phones. Five keys on the sides allow a easy menu guided operation with multiple levels.

CHIPDRIVE mobile has a built in real time clock with calendar and alarm function. The build in buzzer can be used for signaling any tone sequence or melody.

typical applications for CHIPDRIVE mobile are i.e. mobile data collection, health applications, driving license checking, debit- & credit applications, club cards, permit checking, mobile time recording and many others.