

# IDBridge CT40 - USB Smart Card Reader SL

**Brand:** Gemalto  
**Product Code:** SMAG1000959



## Short Description

USB Smart Card Reader SL

## Description

- PC Connection port

	USB	Serial	PCMCIA/Express
PC Twin Serial		X	
IDBridge CT30	X		
<b>IDBridge CT40</b>	<b>X</b>		
IDBridge CT700	X		
IDBridge CT500			X
IDBridge CT510			X

- Plug and Play
- **USB** 2.0 full speed (12 Mbps)
- **Serial** RS232 programmable transmission

from 9,600 to 115,200 bps

- **PCMCIA**

PC Card type II, programmable transmission

from 9,600 to 115,200 bps

ExpressCard/54, USB 2.0 full speed (12 Mbps)

Smart Card  
Interface

PC Core hardware and firmware architecture

- Supports ISO 7816 Class A, B and C cards (5 V, 3 V, 1.8 V)
- Supports up to TA1=17 (826 Kbps with a 4.8Mhz reader clock) for CT30
- Supports up to TA1=97 (500 Kbps with a 4Mhz reader clock) for CT510 and CT700
- Supports up to TA1=96 (340 Kbps with a 4Mhz reader clock) for other readers
- Reads from and writes to all ISO 7816-1,2,3,4 microprocessor cards, T=0 and T=1 protocols
- Supports memory cards using "Synchronous Card API"
- Short circuit detection

Smart Card  
Connector

- 8 friction contacts - ISO location
- 100,000 insertion cycles
- EMV Level 1 mechanically compliant
- Embossed smart cards supported

Human interface

- LED one color (green), dual state (blinking: waiting card insertion; ON: card reading / writing)
- CT700 (pinpad):
  - 2x16 alphanumeric display
  - orange LED ON at Secure PIN Entry mode
  - Tactile keypads with 16 (4x4) silicon rubber keys

Cable/Power

- USB reader

## Supply

- Cable 1,5 m long
- USB 2.0 type A connector
- Power supply thru USB port
- Maximum operating current: 100mA
- Operating voltage [4.7 – 5.3V]
- Serial reader
  - Cable 1,5 m long
  - Serial DB9 connector
  - Power supply thru PS/2 port
  - Operating voltage 5 V +/- 10%
- PCMCIA CT500 reader
  - Maximum operating current: 25mA
  - Power supply thru PC Card port
  - Operating voltage 5 V +/- 10%
- PC Express CT510 reader
  - Power Consumption Suspend mode: 1mA
  - Typical operating: 55mA
  - Maximum operating: 200mA
  - Power supply thru ExpressCard port
  - Rating 3.3V 1A primary supply voltage

## Standards / Certifications

- ISO/IEC 7816-1,2,3,4: IC Cards with contacts
- EMV Terminal Level 1 version 4.1
- Mondex ChipSafe Plus Purse 2 (CT30)
- Microsoft Windows Hardware Quality Labs (WHQL), Windows Logo Program WLP 2.0
- USB 2.0 Full speed certified (USB readers listed on usb.org website)
- CCID - Chip Card Interface Device 1.1 (USB & ExpressCard readers)

## API

- Microsoft PC/SC environment with associated drivers
- CT-API
- Synchronous Card API for support of memory cards

## Operating Systems

- Up to Windows 8
- Win CE 4.1, 4.2, 5.0, 6.0 (USB readers)

- Linux Kernel 2.6 and higher
- Mac OS X Panther, Tiger, Leopard 32 editions (USB readers)
- Support for Solaris, XP embedded (USB readers)

PC/SC drivers can be downloaded from [support.gemalto.com](http://support.gemalto.com).

#### Environmental

- CE, FCC part 15 Class B
- VCCI, c-Tick, BSMI
- EN 60950 / UL 950 / CSA 950
- Operating: +0°C / +55°C
- Storage: -20°C / +65°C
- ROHS and REACH compliant , WEEE marking

#### Warranty

- 24 months
- 100,000 smart card insertions

#### OEM

Reader and packaging personalization available  
Customized stickers, logo and colors upon request

#### Weight and size

	Weight (grams)	Dimensions (LWH mm)
IDBridge CT30	61	93 x 63 x 13
PC Twin Serial	95	93 x 63 x 13
<b>IDBridge CT40</b>	<b>76</b>	<b>105 x 70 x 12</b>
IDBridge CT700	292	121 x 79 x 49
IDBridge CT500	29	85 x 54 x 5
IDBridge CT510	23	75 x 54 x 5

#### Stand accessory

##### Casing

Polycarbonate, crystal transparent color  
2 removable adhesive tape to stick it on a desktop

##### Dimension

75 (L) x 81 (W) x 85 (H)

##### Packaging

Cubic brown carton box 90(L) x 90 (W) x 92 (H)  
Installation and user notices printed on the box  
Weight: 100grs for the standard version, 490grs for the weighted version

##### Kit content

1 plastic stand

	2 removable adhesive tapes
Environment	Storage: -20°C / +60°C
<b>3"1/2 Floppy Bay Pack</b>	
Connection	Internally, on a USB 5 pin header connectors of the PC motherboard Externally, re-using the Serial or USB cables delivered with the PC Twin reader
Casing	Material: ABS Color: beige Pantone Cool Gray 3C or PMS black C 4 screws for securing inside the PC case
Dimension	3"1/2 drive bay 102 (L) x 136 (W) x 25 (H)
Packaging	Brown carton box 205 (L) x 145 (W) x 38 (H) Weight: 200 gr
Kit content	Floppy Bay plastic case 3.5" Light guide adapter Cable for connector adaptation screw kit for assembly A4 paper installation guide
Environment	Storage: -20°C / +60°C

### **5"1/4 Floppy Bay Pack**

Connection	Internally, on a USB 5 pin header connectors of the PC motherboard Externally, re-using the Serial or USB cables delivered with the PC Twin reader
Casing	Material: ABS Color: PMS black C 4 screws for securing inside the PC case
Dimension	5"1/4 drive bay 149 (L) x 85 (W) x 43 (H)
Packaging	Brown carton box 188 (L) x 158 (W) x 56 (H) Weight: 200 gr
Kit content	Floppy Bay plastic case 5.25" Light guide adapter Cable for connector adaptation Screw kit for assembly A4 paper installation guide
Environment	Storage: -20°C / +60°C

### **USB Cable accessory**

Connection	USB USB full speed (12 Mbps) Hubless USB type A connector
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Color	Operating voltage [ 4.4 --> 5.5V ] Pantone cool grey 6C
Length	Cable 1,5 meter long
Packaging	Blister box 130 (L) x 201 (W) x 35 (H) Weight: 100 gr
Kit content	USB cable
Environment	Storage: -20°C / +60°C
Standards	Fully compatible with Microsoft PC99 specification for plugs colors

### **Serial Cable accessory**

Connection	Serial RS232 Serial DB9 connector Power supply thru PS/2 port Operating voltage 5V +/- 10%
Color	Pantone cool grey 6C
Length	Cable 1,5 meter long
Packaging	Blister box 130 (L) x 201 (W) x 35 (H) Weight: 140 gr
Kit content	Serial RS232 cable
Environment	Storage: -20°C / +60°C
Standards	Fully compatible with Microsoft PC99 specification for plugs colors

--> [Drivers and tools](#)