



Presenting GemPC Express Smart Card Reader



ExpressCard Standard

- The new high-speed serial card standard from PCMCIA embracing PCI Express (2,5Gbit/s) and USB 2.0 (480 Mbit/s) interfaces



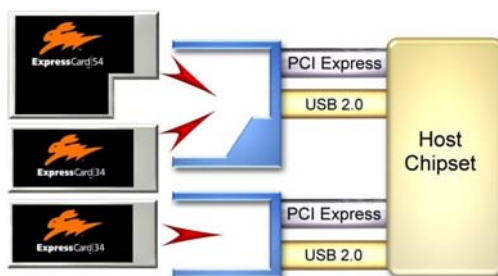
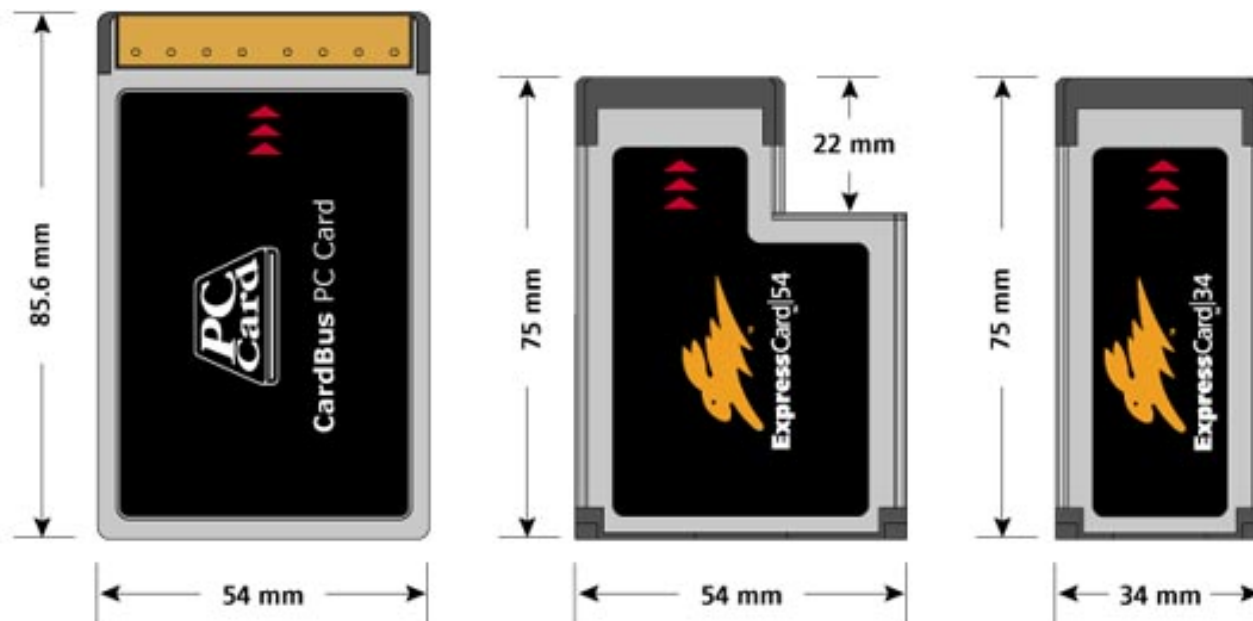
- New form factor replacement for CardBus and PC Card-16




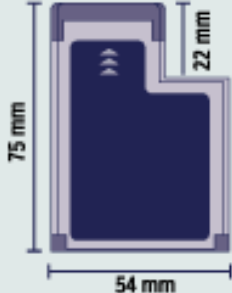

- 54mm width case for smart card readers, Compact Flash adapters or even miniature hard drives



ExpressCard form factors



ExpressCard vs PC Card

<h2>PC Card vs. ExpressCard</h2> <p>The differences in ExpressCard technology allow for much faster throughput in a design that is much slimmer than the PC Card.</p>	<h3>PC Card*</h3> 	<h3>ExpressCard/54</h3> 	<h3>ExpressCard/34</h3> 
Size (HWD, in mm)	5 x 54 x 86	5 x 54 x 75	5 x 34 x 75
Connector pins (and port type)	68 (parallel)	26 (serial)	
Connector type	Pin in socket	Beam on blade	
Bandwidth	132 MBps	Via ExpressCard connector, 250 MBps each direction; via USB 2.0, 60 MBps	
Removal method	Mechanical	Manual	

* 32-bit CardBus, Type II.

No need of specific PCMCIA controller leading to a lower product cost



universal
SMARTCARDS

gemalto
security to be free

Product features

- **Host Interface**
 - USB 2.0 Full Speed (12 Mbps)
 - ExpressCard/54, full metal jacket
 - Operates with Microsoft CCID driver
- **Smart Card Interface**
 - GemCore Twin Pro one chip
 - Sliding contacts, 100K insertions
- **Drivers for**
 - Windows 2000, Xp, Server 2003, Xp 64 editions
 - Linux RedHat, Debian, Suze , MAC OS
- **API**
 - PC/SC
 - CT-API thru wrapper on top of PC/SC (upon request)
- **Approval**
 - FCC, UL, cUL, CE, VCCI, BSMI, MIC, C-Tick,
 - Listed in ExpressCard Resource Directory
 - ROHS compliant
 - EMV level 1 certification for Gemcore Twin Pro IFM
- **Interoperability**
 - Included in GemSafe Library v5.0 install setup

