

One-time password to boost online security

Banks are turning to one-time password (OTP) technology in a bid to beat internet credit card fraud. Each time it is used the card's microchip generates a unique password which authenticates the card holder – replacing today's less reliable signature strip security number

AUTHENTICATION

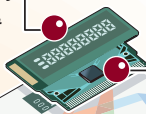
Current system is vulnerable if hacker obtains **security number** with card details. Information can be used to make purchases

SECOND MICROCHIP

3 Personal information, details of last transaction or balance information stored on **smart-chip** – more secure than magnetic strip

e-paper display

Printed circuit



Microchip

Pressure-sensitive key enable point

Sources: SiPix © GRAPHIC NEWS

OTP GENERATOR

- 1** User presses card at **key enable point** to activate password generating microchip
- 2** Ultra-thin **e-paper display** can be used 16,000 times and has three-year battery life

