

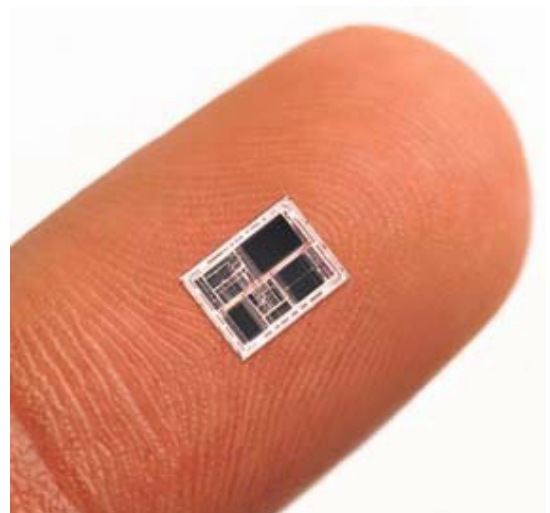
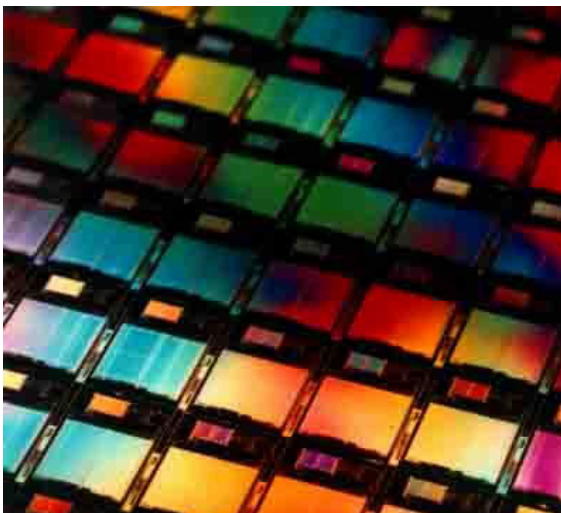
The logo for e.cebs, featuring the text 'e.cebs' in a stylized blue font with a small yellow dot above the 'e'.

THE SMART OPTION

Electronic Commerce Enabled by Smartcards

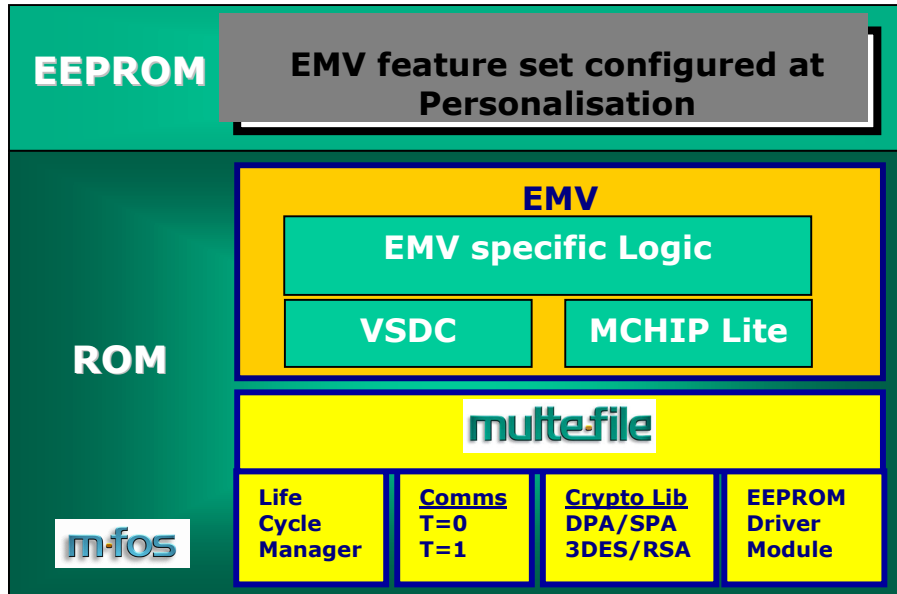
EMV Cardware EC2000

EMV card issuers need platform and vendor independent solutions to ensure the widest range of options at the lowest possible cost of deployment. They need freedom to choose from multiple suppliers. They need flexibility in a platform that supports fully compliant, configurable (for multiple brands and profiles) EMV payment alone or together with value-added functionality such as an ISO 7816 file system for CRM and loyalty. For issuers who need flexibility and the options of multi-functionality without the cost overhead and resource footprint of today's standard multi-application smartcard operating systems, Ecebs have created the ideal solution. Ecebs' EMV payment solution *cardware* brings the right mix of options at the lowest cost and overhead.



- Full EMV Compliance (EMV 96 and 2000)
- Multi-brand implementation (MasterCard M/Chip Lite or minimal Visa VSDC requirements)
- Configurable at personalisation
- Low-cost silicon with additional platforms on roadmap

Ecebs' configurable EMV mask is based on our unique *Multefile* and *Mfos* technology. It is fully compliant with EMV 96 and 2000 and can be configured for multiple brands (M/Chip Lite or VSDC) as late in the deployment process as personalisation. By using a modular approach based on a hardware abstraction layer and written in ANSI C, Ecebs has created EMV core payment functionality that is both easily ported to other chip platforms and easily extended to include additional functionality such as an ISO 7816 file system or loyalty application.



- T0 or T1 protocol
- High speed I/O for faster personalisation
- Any Configuration of ROM and EEPROM to suit
- Crypto library
- 3DES
- Optional RSA
- Penetration tested with SPA, DPA, DFA counter-measures
- Anti-tear function (atomic write/rollback)

Ecebs' configurable, multi-brand EMV offering is a leader in the EMV market. Ecebs' solution offers the maximum of flexibility, functionality and configuration options without the overhead and cost of a multi-application operating system.

Ecebs' solution is highly modular – adding functionality is easy. Hardware abstraction and extensive use of Ecebs innovative on-card architectures make support for additional silicon platforms quick and inexpensive. Using Ecebs' Multefile application framework can make operational management of our EC2000 Family even easier.

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