

# TolMol

## Comprehensive SmartCard Reader Embedded Solution

### AMDL-BCTD

is a division of Advanced Micronic Devices Limited, a group Company of Opto Circuits (India) Limited.

The Company's commitment to technology and support has been its area of strength and the reason for its customers to choose AMDL as a vendor of choice. AMDL's customer base includes major Corporate, Defense Establishments, Software Technology Parks, MNCs and Super Specialty Hospitals. AMDL has branches in all the Indian metros, Singapore, Malaysia and the US.

AMDL-BCTD is committed for providing high levels of support to its clientele and associates by offering a broad range of Embedded Products and Services for the payment systems industry.

In addition to deployment, help desk, leasing services, and technical assistance and training for our products, AMDL-BCTD provides consultancy services for customization, design, installation, integration and management of payment systems.

Our Technology Services group offers diverse cost effective, high quality customized Software and Hardware Design and Development for a wide range of embedded applications.

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## TolMol

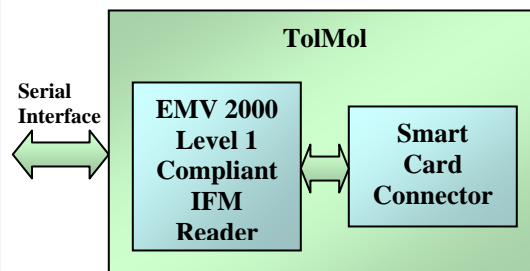
*AMDL's TolMol is a single chip, Low cost, Low Power EMV 2000 Level1 compliant IFM. It manages the mechanical, electrical and communication interface with ISO 7816 – 1/2/3/4 compatible smart cards.*

*The Connection with the host system is achieved through serial asynchronous link. The rate can be selected from 1200 bps to 115200 bps.*

*The software inside the TolMol handles a communication protocol with the host system is Gemplus Block Protocol.*

### Applications

- Ready to use IFM for Point of Sale
- General purpose Card Readers
- Portable EMV 2000 Card Readers
- Terminals and other smartcard based payment applications



## Technical Specifications:

### Compliance with Standards

- ISO / IEC 7816 – 1/2/3/4
- EMV2000

### Smart Card Features

- Asynchronous cards, T=0, T=1
- Single Smart card supported
- Synchronous / Memory cards using a command interpreter
- Accepts EMV Cards
- EMV cards downwards compatible
- Auto switching acceptance for A,B and C type cards
- 4KV Human Body model ESD Protection on card pins
- Card Presence and insertion auto detection
- Short circuit current limitation

### Host Interface Features

- Serial asynchronous communication
- Data transmission speed 1200 to 115200bps
- Protocol: Gemplus Block Protocol (GBP)

### Electrical Features

- Operation voltage 3.3V
- Power consumption: 8mA Typical – Smart card powered
- Power Down/Power Up by Host command
- Operating temperature 0 to 70 Degree C

### Mechanical Features

- Board Dimension: 75mm 55mm
- Weight: 40 Gm
- Smartcard connector Guarantee for 1,000,000 insertion cycles



[www.amdlbct.com](http://www.amdlbct.com)