DE8681

Demonstration and Evaluation kit for CMX865/A, CMX867/A, CMX868/A ICs

The DE8681 Demonstration kit is a reference design for the CMX865A DTMF Codec/FSK combo, CMX867A Low Power V.22 modem and CMX868A V.22bis modem IC.

On the main "socket-type modem" section it also contains the line interface components and a Flash PIC µC. Attached to the main section are two break-off sections which contain a 9-pin D type socket for PC serial communications, a Flash PIC programming connector, an RJ11 line connector and various LEDs for indicating signal activity.

Features

- CMX868A-Based DAA Reference Design
- Fully Isolated Two-Wire Line Interface
- Opto-isolated 'Ring-Detect' Circuitry and OptoMOS 'Hook Relay'
- 'AT' Command Compatible Firmware
- On-Board Flash Compatible Firmware
- PC Controlled via Terminal Emulator
- DAA Compliant to FCC 68 and CTR21
- Single 3V or 5V Requirement
- 'Break-Off' PCB Section Provides Full-Feature 'Socket-type' Modem
- Supplied with Manual, Circuit Diagrams, Software and PCB Layout Data

Applications

- Evaluation, Demonstration and Investigation of CMX865, CMX867/A and CMX868/A Wireline Modem ICs

Supply Requirement

- 3 Vdc or 5Vdc

For further information, please refer to the 'Design Resources' section on the CMX865/A, CMX867/A, CMX868/A product page(s) at cmlmicro.com

AT Commands are used to control the demonstration board via a standard terminal emulator program running on a host PC.

Interfacing to the Demonstration Board can be via socket pins on the socket modem section, or via the connectors provided on the break-off sections.
The board can be operated at 3V or 5V dc, which must be provided by an external, regulated power supply.

The PCB has been laid out for both CTR21 and FCC68 compliant DAA designs. However the components fitted are for the simplified FCC68 design.

Instructions are given for users who wish to fit the CTR21 components. Hardware has been provided on the socket modem section for CLI Type 1, but a PIC firmware upgrade will be required to enable this function, which may be available at a later date.

With this is mind, the socket modem has been provided with a Flash PIC Microcontroller that can be serially programmed in circuit via the RS232 connection.

DE8681

CML Microcircuits Benefits

Faster time to market

Developing proven high performance and field tested ASSP ICs, CML is helping engineers to cope with increasing
pressure in delivering shorter project design cycles.

Design flexibility

CML's *FirmASIC*® reconfigurable technology with the use of a Function Image upload enables a single hardware platform to be used for multiple communications systems.

High Quality

With 100% of products being tested before shipping,
customers are assured of the highest reliability.

Product Longevity

Designing with CML products, manufacturers are rewarded with longer product life cycles and a stable BOM, ensuring minimum engineering costs and maximum profit.

Low Power

Being at the forefront of low power chip technology, manufacturers can develop smaller equipment with extended battery life.

Superior Support

Internal and field based applications teams worldwide
provide focused customer support to ease the development process.

www.cmlmicro.com

United Kingdom	Tel: +44 (0) 1621 875500	email: sales@cmlmicro.com
United States	Tel: +1 336 744 5050	email: us.sales@cmlmicro.com
Singapore	Tel: +65 62888129	email: sg.sales@cmlmicro.com