

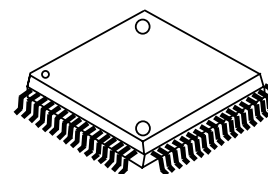
## COMMON INTERFACE/POD CONTROLLER CXD2099AR

### DESCRIPTION

The CXD2099AR is a Common Interface (CI) controller IC designed for use with DVB compliant Conditional Access Modules (CAM), POD and PCMCIA type memory cards - performs the communication between a Host microcontroller and the Module/Card. The IC communicates to the Host either by a parallel 68K style interface or a serial I<sup>2</sup>C compatible connection. Communication between the CXD2099AR and the Module/Card is greatly simplified by the inclusion of a fully integrated hardware Physical layer.

Parallel and serial MPEG2 Transport Stream interfaces are fully programmable ensuring compatibility to commonly used Front End demodulators and MPEG2 decoders.

100 pin Plastic LQFP



### FEATURES

#### Card Interface

- Fully integrated single slot PC Card interface.
- Support for dual slot PC Card interfaces.
- Support for generic PC Card interfaces.
- Full Hardware Hot-swap support.
- Independent support for 3V3 and 5V modules.
- Support for current overload detection.
- Integrated Physical layer with 1Kbyte buffer.

#### Host Interface

- Choice of Parallel (68K style) or serial (Fast I<sup>2</sup>C compatible) host bus interface.
- Maskable interrupt capability.
- Programmable HACK.
- 3V3 logic levels.

#### Transport Stream Interfaces

- Accepts MPEG2 compliant TS.
- Parallel TS interfaces to/from Card (up to 9Mbytes/s).
- Parallel/ serial TS interface from tuner (up to 9Mbytes/s). 72MHz in serial mode.
- Serial TS interface to downstream device (up to 72Mbits/s).
- Four serial input and output modes.

#### Miscellaneous

- 27 MHz operating frequency.
- Integrated PLL for serial TS
- 3V3 process
- 5V compatible I/Os for PC Card interface(s)
- LQFP 100-pin package.

### APPLICATIONS

- DTV, iDTV
- Set Top Box
- Personal Video Recorder (PVR)