

## CMX673

2 August 2019

### Call Progress Tone Detector

The CMX673 is a general purpose call progress tone detector for use in Public Switched Telephone System (PSTN) applications.

Call progress detection allows equipment which dials into the PSTN network to monitor the progress of the resulting call: Ringing, Busy, Not Available and Answer states can be determined. The CMX673 uses advanced digital signal processing techniques to detect tones in the frequency band 315 to 65Hz. The use of DSP techniques allows the CMX673 to distinguish between valid call progress tone signals and line noise or voice, low false detection rates result.

#### Features

- Worldwide tone compatibility
- Single and dual tones detected
- Wide dynamic signal range
- Fast response time
- Low power (line) operation
- 3.58MHz Xtal/clock oscillator
- 'Output Enable' multiplexing facility

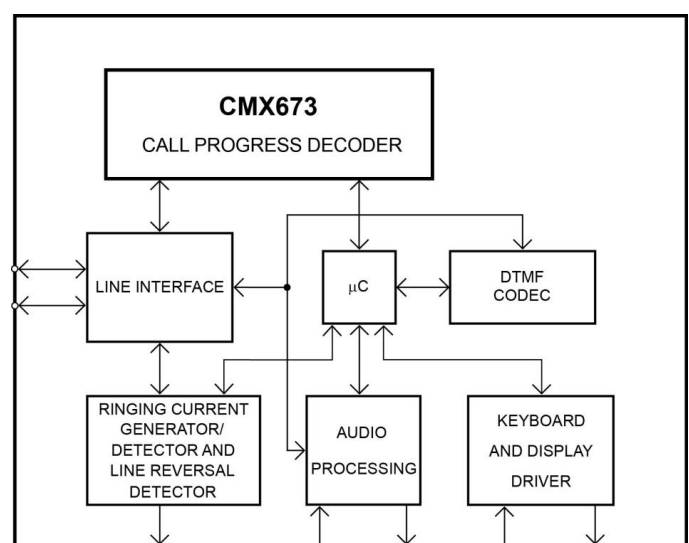
#### Applications

- Worldwide payphone systems
- Telephone redialling systems
- Dialling modems
- Banking and billing systems
- Telecom test equipment
- Telecom security systems

#### Supply Requirement

- 2.7 to 5.5V

This is in contrast to other call progress detection devices which are based on simple filtering techniques. The detection timing of the CMX673 allows it to operate with almost any call progress system. The use of digital processing and small geometry CMOS design techniques allows the CMX673 to offer a complete call progress detector, analysing both frequency and amplitude in an 8-pin (PDIP) package.



CMX673 Block Diagram



## WHAT TO DO NEXT

Visit: [www.cmlmicro.com](http://www.cmlmicro.com)

Find: [Distributor](#)

## 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*<sup>®</sup> 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](http://www.cmlmicro.com)

United Kingdom  
United States  
Singapore

Tel: +44 (0) 1621 875500  
Tel: +1 336 744 5050  
Tel: +65 62888129

email: [sales@cmlmicro.com](mailto:sales@cmlmicro.com)  
email: [us.sales@cmlmicro.com](mailto:us.sales@cmlmicro.com)  
email: [sg.sales@cmlmicro.com](mailto:sg.sales@cmlmicro.com)