# **Product Brief**

### TA31275M AM/FM Detector IC Module

#### **Highlights**

- Radio frequency/ intermediate frequency (RF/IF) detector IC
- Delivers industry-leading sensitivity performance
- Can be used as an embedded reference design or as a ready-touse RF/IF detector
- Clean receive input eliminates the need for extensive filtering
- Embedded Toshiba proprietary x8 circuitry for clean reception eliminates the use of a phase locked loop

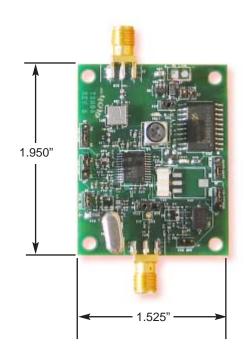
#### Description

The Toshiba TA31275M module provides product development and end users with a complete solution for 240 ~ 450 MHz AM and FM RF/IF detection. The device is an excellent solution for an RFIC receiver when low cost and optimum sensitivity are the main design criteria for wireless applications like automotive, remote keyless entry and tire pressure monitoring systems.

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#### **Features**

- Radio frequency using multiplier: 240 ~ 450 MHz
- Radio frequency not using multiplier: 100 ~ 450 MHz
- Intermediate frequency: 10.7 MHz
- Power consumption in FM mode: 6 mA
- Power consumption in AM mode: 5.6 mA
- Power consumption in STB mode: < 10 μA</li>
- Operating voltage: 4 ~ 12 VDC
- RFIC chip core voltage: 2.4 ~ 5.5 VDC
- Small size: 1.525 inches x 1.95 inches





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www.Toshiba.com/taec

## **Product Brief**

### TAEC Regional Sales Offices

#### NORTHWEST

**San Jose, CA** TEL: (408) 526-2400 FAX: (408) 526-8910

**Portland, OR** TEL: (503) 446-3721 FAX: (503) 629-0827

#### SOUTHWEST

**Irvine, CA** TEL: (949) 455-2000 FAX: (949) 707-5576

**Richardson, TX** TEL: (972) 480-0470 FAX: (972) 235-4114

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#### NORTHEAST

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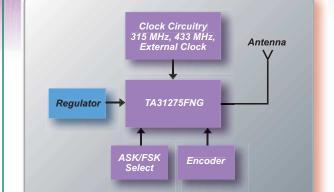
**Edison, NJ** TEL: (732) 248-8070 FAX: (732) 248-8030

#### SOUTHEAST

**Duluth, GA** TEL: (770) 931-3363 FAX: (770) 931-7602

#### www.Toshiba.com/taec

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TA31275M AM/FM Detector IC Module Block Diagram

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