SCT3258TD
DMR/dPMR Processor with Analog Mode
(Embedded AMBE+2™ Vocoder)

The SCT3258TD is a highly integrated, low power, high performance, Digital/Analog PMR/LMR baseband processor with an embedded Vocoder.

Features

- Supports Multiple Radio Protocols
- Automatic Digital/Analog mode detection
- DMR standard
  - Supports DMR Tier 1, Tier 2
  - Air interface Layer 1, Layer 2, Layer 3
  - Full Annex C support
  - Transmit in slotted or continuous mode
  - Receive in slotted or continuous mode
- dPMR standard
  - Supports dPMR Tier 1, Tier 2
  - Air interface Layer 1, Layer 2, Layer 3
  - Supports 1031 Hz Tone and Silence Test Mode
  - Full Annex A support
- Analog Mode
  - Full audio processing including compander
  - CTCSS/DCS detection/generation
  - Supports two-point modulation
- Embedded Vocoders
  - Support for multiply vocoders
  - Embedded: AMBE+2™, RALCWI™
  - External vocoder options
- 4FSK Modem
  - 4800/9600 data rate
  - Automatic frame sync detection
  - Programmable modulation index
- Low power operation
  - DMR mode 64mW
  - dPMR mode 38mW

The SCT3258TD is available from CML’s ‘Sicomm Technologies’ product range that is specifically targeted at high volume and low cost radio applications.

The SCT3258TD includes the entire physical layer, data link layer and much of the call control layer processing of the digital PMR/LMR radio protocols. Combined with a suitable RF front end, external audio codec and host controller, a complete digital radio that also supports analog mode can be developed in a short time frame.

A hardware development kit is also available SCT3258HDK.

The Design Reference SCT9366D provides an easy route to developing a 5W multi-mode DMR/dPMR/Analog radio.

For further details please visit CML’s website and technical portal at www.cmlmicro.com.

Applications

- DMR Radio
- dPMR Radio
- Multi-mode Digital PMR/LMR with Analog Mode

Key Advantages

- Proven Technology
- Complete solution capability
  - Dedicated chipset
  - ETSI focused design reference
- Fast route to market
- Low operating power
- Highly integrated solution
- RF support:
  - Conventional FM receiver
  - Direct Conversion receiver
- Embedded AMBE+2™ Vocoder option
- Fully supported evaluation kits

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### Block Diagram

![Block Diagram](image)

### Evaluation Support

![Evaluation Support](image)

### Typical Application

![Typical Application](image)

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**WHAT TO DO NEXT**

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