

**Wavetable Sample ROMs for Music Synthesis**

**Features**

- General MIDI compliant melodic instrument and percussion sets
- Sound Canvas™ compatible drum kits, special effects and instruments
- Upgradeable PCM sample set:
  - CS4110, General MIDI plus extras
  - CS4111, optional GS upgrade
  - combined, full Sound Canvas set
- PCM data for nearly 400 sounds (225 instrument sounds, 120 percussion sounds and 48 special effects)
- Compressed data, static, low-power CMOS operation, TTL-compatible I/O

**General Description**

The CS4110 and CS4111 16-Mbit Read Only Memories (ROMs), contain PCM waveform data used by the Crystal family of wavetable music synthesizers, the CS9203 & CS9233 devices, to produce high fidelity music and special effects. Used with the appropriate firmware, full General MIDI (GM) compliancy and Roland General Synthesis compatibility (as implemented in the Sound Canvas™) is achieved.

The base sample set is the CS4110; the CS4111 is an optional upgrade/expansion. Combined the devices contain 32-Mbits of PCM data. Proprietary compression and data reduction techniques were used to minimize storage requirements.

The CS4110 and CS4111 offer a power-down mode controlled by the Chip Enable CE input.

**For more information contact your sales representative (Chapter 7)**

