

D5001

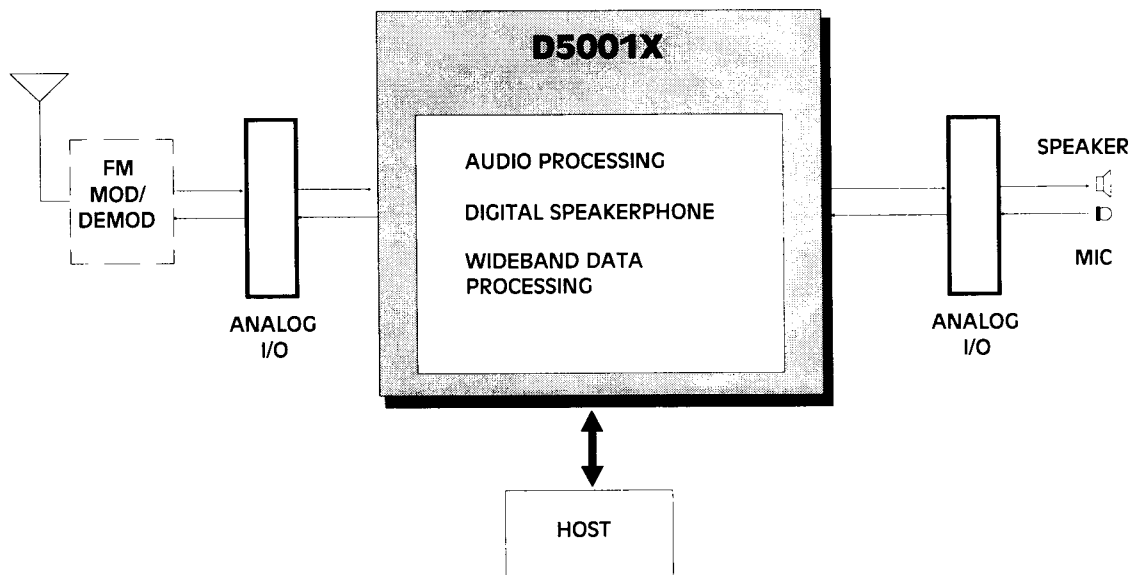
Chip-sets for Analog Cellular Telephones

FUNCTIONS PROVIDED BY THE D5001 FAMILY

- Audio Processing for AMPS/TACS/NMT
- Data Processing for AMPS/TACS/NMT
- DIGITAL SPEAKERPHONE™
- Supervisory Audio Tone (SAT) processing
- Signalling Tone Generation
- DTMF generation/DTMF detection
- General Purpose Tone Generation
- RSSI measurement and PA control
- Voice Dialing

BENEFITS OF DSP TECHNOLOGY FOR CELLULAR TELEPHONE DESIGNS

- High Integration Levels
- Simplified Signal Paths
- Accelerated Cost Curves
- Non-varying AC characteristics
 - Stability over temperature
 - Elimination of trimming
- Tone Signalling Capability
 - DTMF messaging
 - Fax/PC interface
- Superior performance
 - Audio
 - Data
 - Hands free
- Accelerated Innovation Cycles
 - Firmware flexibility
 - Added value functions
- Next Generation Compatibility



All specifications are subject to change without prior notice.

D5001 FAMILY OVERVIEW

PRODUCT/ AVAILABILITY	FUNCTION SET	NOTES
D5001A/Production	Audio Processing; SAT Processing; DIGITAL SPEAKERPHONE ; DTMF Generation	AMPS/TACS
D5001D/Sampling	Enhanced Audio; SAT processing; DIGITAL SPEAKERPHONE ; Wideband Data Processing; Data Conversion (RSSI); DTMF Generation	AMPS Call ProgressTones and DTMF Detection
D5001L/ Sampling Q2 93	D5001D with Low Power Performance for portable applications; PWM for RF PA control	AMPS/TACS Call Progress Tones and DTMF Detection; 3V operation; Pin compatible with D5001D
D5001C/Sampling	Enhanced Audio and SAT processing; Wideband Data processing; DTMF Detection; General Purpose tone generation	AMPS/TACS Base Station Application
D5001N/Production	Audio; SAT; Data processing; DIGITAL SPEAKERPHONE; DTMF Generation	NMT
D5001R/Production	Audio; SAT; Data processing; DIGITAL SPEAKERPHONE ; DTMF Generation; DTMF Detection	NMTF, RC2000

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