

# D5001

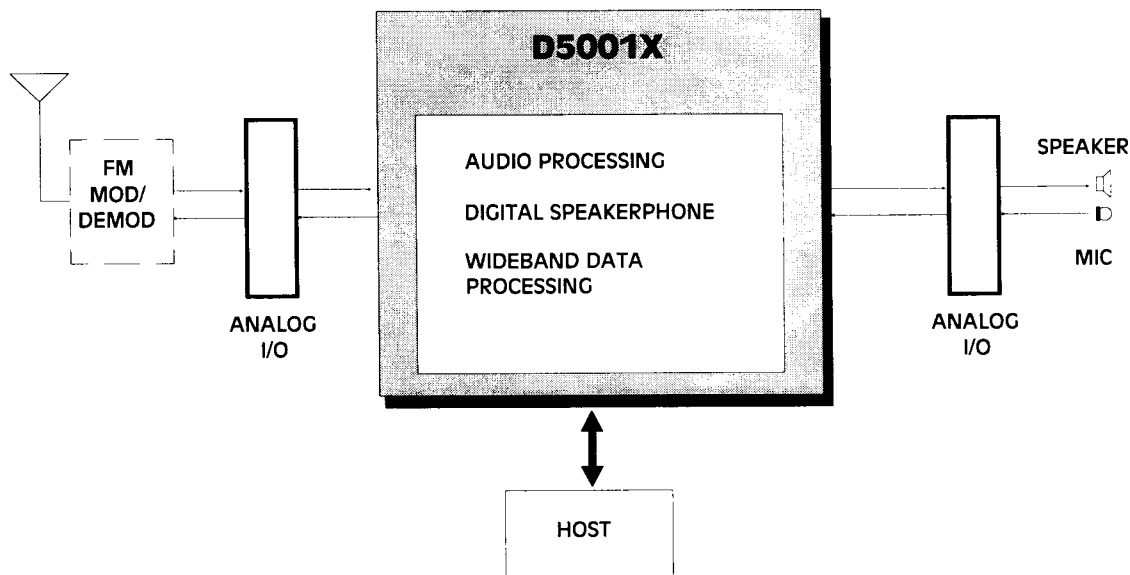
## Chip-sets for Analog Cellular Telephones

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

## DSP Telecommunications Ltd.

11, Ben Gurion Street  
Givat Shmuel 51905, Israel  
Tel: (972) 3-5313300  
Fax: (972) 3-5313303

## DSP Telecommunications Inc.

4051 Moorpark Avenue  
San Jose, CA 95117, USA  
Tel: (408) 985-0722  
Fax: (408) 985-2108

## Nihon DSP Group K.K.

2-29-9 Nishi Gotanda, 9th floor  
Shinagawa-Ku, Tokyo 141, Japan  
Tel: (81) 3-5496-1611  
Fax (81) 3-5496-1615

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