

ANALOG & MEMORY ICs



For Harsh Environments

Packages:

Ceramic DIP
 Plastic Extended Temperature DIP
 Plastic Extended Temperature SOIC

Ceramic Flat Pack
 Leadless Chip Carrier
 Custom

Temperature:

Military -55°C to +125°C
 Mil-Processed -55°C to +125°C
 Extended Temperature -55°C to +175°C

ANALOG



TT1510/1512 Instrumentation Amplifiers

- Lowest noise: 34 nV/√Hz @ 0 dB gain
- Widest bandwidth: 7 MHz @ 40 dB gain
- Gain from -6 to > +60 dB
- Low current: 6 mA
- Industry-standard pinout



TT1600 Series OutSmarts® Balanced Line Drivers

- Transformer-like performance
- Tames clipping into single-ended loads
- Lowest noise: -101dBu
- Industry-standard proprietary pinout



TT1200 Series InGenius® Balanced Line Receivers

- Transformer-like performance
- 90 dB CMRR under real-world conditions
- 3 gain choices: 0, -3, -6 dB
- Wide bandwidth
- High slew rate
- Low distortion & noise



TTAE4305 Analog Engine®

- Basic compressor / limiter / expander
- Blackmer VCA & true-RMS detector
- Wide power supply range
- Low current: 3.5 mA typ. (±15V)



TTAE4320 Low-voltage Low-power Analog Engine®

- Versatile compressor / limiter / expander
- Low-current: 3.7mA typ.(5V)
- Blackmer VCA & true-RMS detector
- Four on-board opamps
- On board PTAT reference



TTAE4315 Low-voltage Low-power Analog Engine®

- Basic compressor / limiter / expander
- Low current: 1.6 mA typ. (5V)
- Blackmer VCA & true-RMS detector
- Wide supply voltage range
- Wide dynamic range: 118 dB as compander



TT1300 Series Matched Transistor Arrays

- Low noise: 0.75 nV/√Hz
- High speed: 350 MHz f_T
- Excellent matching: 500 μV
- NPN and PNP pairs & quads



TT2181 Series Trimtable Blackmer® VCAs

- Lowest signal distortion
- Widest dynamic range
- Widest gain range
- Widest bandwidth
- Highest slew rate
- Dual gain-control ports (pos/neg)



TT2252 RMS Level Detector

- True RMS response
- Wide dynamic range: >80 dB
- Logarithmic output scaling
- Directly interfaces to VCAs

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