

NATIONAL PRODUCTS Analog ICs

National Products
from Texas Instruments

RoHS Compliant This product is RoHS compliant.

ANALOG AUDIO SUBSYSTEM

| MOUSER STOCK NO. | National Products Part No. | Package Style | Power @ 5V 8Ω (W) | Speaker | | | Headphone | | | Audio MUX | Audio Mode Control | Analog Inputs | | Price Each | | |
|--------------------|----------------------------|---------------|-------------------|-----------|-----------|----------|-----------|-----------|----------|-----------|--------------------|---------------|--------|------------|------|------|
| | | | | THD+N (%) | PSSR (dB) | SNR (dB) | THD+N (%) | PSSR (dB) | SNR (dB) | | | Mono | Stereo | 1 | 25 | 100 |
| 926-LM49155TL/NOPB | LM49155TL/NOPB | MicroSMD | 1.35 | 0.015 | 72 | 94 | 0.01 | 94 | 95 | Yes | I ² C | 1 | 1 | 6.45 | 5.27 | 4.73 |

For quantities greater than listed, call for quote.

AUDIO ATTENUATORS

| MOUSER STOCK NO. | National Products Part No. | Package Style | THD (%) | SNR (dB) | Supply Voltage (V) | | Interface Type | Equivalent Input Noise (μV/root) (Hz) | Special Features | Price Each | | |
|------------------|----------------------------|---------------|---------|----------|--------------------|------|----------------|---------------------------------------|--|------------|------|------|
| | | | | | Min. | Max. | | | | 1 | 25 | 100 |
| 926-LM1971M/NOPB | LM1971M/NOPB | SOIC-8 | 0.0008 | 115 | 4.5 | 15 | Serial | 4 | 1 Channel, Digitally Controlled Audio Attenuator | 3.04 | 2.45 | 2.20 |

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ANALOG FRONT END

| MOUSER STOCK NO. | National Products Part No. | Package Style | Input Chan. | ADC Res. (bits) | ADC Sampling (MSPS) | Supply Voltage (V) | PGA Gain (dB) | | DAC Offset Resolution (bits) | DAC Offset Range | Power Diss. (W) | Output Type | Price Each | | |
|-------------------------------|----------------------------|---|-------------|-----------------|---------------------|--------------------|---------------|------|------------------------------|------------------|-----------------|-------------|------------|-------|-------|
| | | | | | | | Min. | Max. | | | | | 1 | 25 | 100 |
| 926-LMP91050MME/NOPB | LMP91050MME/NOPB | MSOP-10 | 1 | 8 | 150 | 5.5 | 90 | 110 | - | 1.2mV | - | LVDS | 3.50 | 2.82 | 2.56 |
| 926-LM98714BCMT/NOPB | LM98714BCMT/NOPB | TSSOP-48 | 3 | 16 | 45 | 3.3 | -3 | 17.9 | ±9 | 600 mV | 0.505 | LVDS, CMOS | 32.40 | 27.54 | 25.51 |
| 926-LM96511CCSM/NOPB | LM96511CCSM/NOPB | BGA-376 | 8 | 12 | 50 | 6 | 36 | 40 | - | - | 1.7 | LVDS | 86.28 | 77.13 | 74.79 |
| Development/Evaluation Boards | | | | | | | | | | | | | Price Each | | |
| 926-LMP91000EB/NOPB | LMP91000EB/NOPB | Evaluation board for the LMP90XXX family of Sensor Analog Front End (AFE) | | | | | | | | | | 111.99 | | | |
| 926-LMP91200EVAL/NOPB | LMP91200EVAL/NOPB | Evaluation board for the LMP91200 family of Sensor Analog Front End (AFE) | | | | | | | | | | 105.25 | | | |

For quantities greater than listed, call for quote.

LVDS PHYS <800MBPS

| MOUSER STOCK NO. | National Products Part No. | Package Style | Supply Voltage (V) | I _{cc} (Max.) (mA) | Signaling Rate (Mbps) | Description | Input Signal | Output Signal | Price Each | | |
|-----------------------|----------------------------|---------------|--------------------|-----------------------------|-----------------------|--|-------------------|-------------------|------------|-------|-------|
| | | | | | | | | | 1 | 25 | 100 |
| 926-DS64BR401SQENOPB | DS64BR401SQE/NOPB | LLP-54 | 2.5 | --- | 6400 | Quad Bi-Direct Repeater w/Equalization | CML | CML | 21.74 | 18.42 | 17.01 |
| 926-DS90LV019TM/NOPB | DS90LV019TM/NOPB | SOIC-14 | 3.3 | 20 | 100 | 3.3 or 5V Driver/Receiver | TTL, LVTTTL, LVDS | TTL, LVTTTL, LVDS | 2.97 | 2.38 | 2.17 |
| 926-S90LV019TMTCPNPB | DS90LV019TMTCPNPB | TSSOP-14 | 3.3 | 20 | 100 | 3.3 or 5V Driver/Receiver | TTL, LVTTTL, LVDS | TTL, LVTTTL, LVDS | 2.97 | 2.38 | 2.17 |
| 926-S90LV110TMTCPNPB | DS90LV110TMTCPNPB | TSSOP-28 | 3.3 | 195 | 400 | 1 to 10 Data/Clock Distributor | LVDS, LVPECL, CML | LVDS | 7.73 | 6.33 | 5.71 |
| 926-S90LV011ATMFPNPB | DS90LV011ATMFPNPB | SOT-23-5 | 3.3 | 8 | 400 | Single High Speed Differential Driver | LVTTTL | LVDS | 1.52 | 1.19 | 1.07 |
| 926-DS90LV049TMTCPNPB | DS90LV049TMTCPNPB | TSSOP-16 | 3.3 | 35 | 400 | 3V Dual Line Driver w/Dual Line Receiver | LVTTTL, LVDS | LVTTTL, LVDS | 2.51 | 2.02 | 1.82 |
| 926-DS90LV031ATMTCNPB | DS90LV031ATMTCNPB | TSSOP-16 | 3.3 | 8 | 400 | Quad CMOS Differential Line Driver | LVTTTL | LVDS | 2.97 | 2.38 | 2.17 |
| 926-DS90LV047ATMTCNPB | DS90LV047ATMTCNPB | SOIC-16 | 3.3 | 8 | 400 | Quad CMOS Differential Line Driver | LVTTTL | LVDS | 3.25 | 2.61 | 2.37 |
| 926-DS90LV012ATMFPNPB | DS90LV012ATMFPNPB | SOT-23-5 | 3.3 | 9 | 400 | Single CMOS Differential Line Receiver | LVDS | LVTTTL | 1.25 | .99 | .891 |
| 926-DS90LV031ATMTCNPB | DS90LV031ATMTCNPB | SOIC-16 | 3.3 | 8 | 400 | Quad CMOS Differential Line Driver | LVTTTL | LVDS | 2.80 | 2.25 | 2.05 |
| 926-S90LV012ATMFPNPB | DS90LV012ATMFPNPB | SOT-23-5 | 3.3 | 9 | 400 | Single CMOS Differential Line Receiver | LVDS | LVTTTL | 1.79 | 1.41 | 1.26 |
| 926-DS90LV018ATMTCNPB | DS90LV018ATMTCNPB | SOIC-8 | 3.3 | 9 | 400 | Single CMOS Differential Line Receiver | LVDS | LVTTTL | 1.83 | 1.47 | 1.32 |
| 926-DS90LV028ATMTCNPB | DS90LV028ATMTCNPB | SOIC-8 | 3.3 | 9 | 400 | Dual CMOS Differential Line Receiver | LVDS | LVTTTL | 2.91 | 2.35 | 2.11 |
| 926-DS90LV032ATMTCNPB | DS90LV032ATMTCNPB | SOIC-16 | 3.3 | 15 | 400 | Quad CMOS Differential Line Receiver | LVDS | LVTTTL | 3.05 | 2.45 | 2.23 |
| 926-DS90LV032ATMTCNPB | DS90LV032ATMTCNPB | TSSOP-16 | 3.3 | 15 | 400 | Quad CMOS Differential Line Receiver | LVDS | LVTTTL | 3.05 | 2.45 | 2.23 |
| 926-DS90LV048ATMTCNPB | DS90LV048ATMTCNPB | SOIC-16 | 3.3 | 15 | 400 | Quad CMOS Differential Line Receiver | LVDS | LVTTTL | 3.25 | 2.61 | 2.37 |
| 926-DS90LV048ATMTCNPB | DS90LV048ATMTCNPB | TSSOP-16 | 3.3 | 15 | 400 | Quad CMOS Differential Line Receiver | LVDS | LVTTTL | 3.25 | 2.61 | 2.37 |
| 926-DS90LV027ATMTCNPB | DS90LV027ATMTCNPB | SOIC-8 | 3.3 | 14 | 600 | Dual High Speed Differential Driver | LVTTTL | LVDS | 2.23 | 1.80 | 1.62 |
| 926-90LV031ATMTCXNPB | DS90LV031ATMTCXNPB | TSSOP-16 | 3.3 | 30 | 400 | Quad CMOS Differential Line Driver | LVTTTL | LVDS | 2.25 | 1.80 | 1.21 |
| 926-DS90C363BMTXNPB | DS90C363BMTXNPB | TSSOP-48 | 3.3 | 40 | 455 | Transmitter 18-Bit Flat Panel Display Link | CMOS, TTL | LVDS | 4.38 | 3.51 | 2.37 |
| 926-DS90CR215MTDXNPB | DS90CR215MTDXNPB | TSSOP-48 | 3.3 | 45 | 1386 | Data Strobe 21-Bit Channel Link | CMOS, TTL | CMOS, TTL | 6.97 | 5.58 | 3.77 |
| 926-DS90CR285MTDXNPB | DS90CR285MTDXNPB | TSSOP-56 | 3.3 | 45 | 1848 | Data Strobe 28-Bit Channel Link | CMOS, TTL | CMOS, TTL | 8.77 | 7.02 | 4.74 |
| 926-D90CF384AMTDXNPB | DS90CF384AMTDXNPB | TSSOP-56 | 3.3 | 65 | 1800 | Receiver 24-Bit Flat Panel Display Link | LVDS | LVDS | 4.59 | 3.67 | 2.48 |
| 926-DS90LV001TLDNOPB | DS90LV001TLDNOPB | LLP-8 | 3.3 | 70 | 800 | Single Buffer | LVDS, LVPECL, CML | LVDS | 2.66 | 2.05 | 1.86 |
| 926-DS90LV001TM/NOPB | DS90LV001TM/NOPB | SOIC-8 | 3.3 | 70 | 800 | Single Buffer | LVDS, LVPECL, CML | LVDS | 2.36 | 1.90 | 1.71 |
| 926-DS90CF386MTDXNPB | DS90CF386MTDXNPB | TSSOP-56 | 3.3 | 70 | 2380 | Receiver 24-Bit Flat Panel Display Link | CMOS, TTL | LVDS | 6.97 | 5.58 | 3.77 |
| 926-DS90LV804TSQNPB | DS90LV804TSQNPB | LLP-32 | 3.3 | 140 | 800 | 4-Channel Buffer/Repeater | LVDS, LVPECL, CML | LVDS | 6.84 | 5.67 | 5.16 |
| 926-S90CF364AMTDPNPB | DS90CF364AMTDPNPB | TSSOP-48 | 3.3 | --- | 1365 | Receiver 18-Bit Flat Panel Display Link | LVDS | LVCNOS | 6.53 | 5.35 | 4.82 |
| 926-DS90CF364MTDPNPB | DS90CF364MTDPNPB | TSSOP-48 | 3.3 | --- | 1365 | Receiver 18-Bit Flat Panel Display Link | LVDS | LVCNOS | 5.01 | 4.02 | 3.66 |
| 926-DS90CF363BMTNPB | DS90CF363BMTNPB | TSSOP-48 | 3.3 | --- | 1365 | Prog Tx 18-Bit Flat Panel Display Link | LVCNOS | LVDS | 5.46 | 4.38 | 3.99 |
| 926-DS90LV004TVSNOPB | DS90LV004TVSNOPB | TQFP-48 | 3.3 | 140 | 1500 | 4-Ch Buffer/Repeaters with Pre-Emphasis | LVDS, LVPECL, CML | LVDS | 7.85 | 6.43 | 5.80 |
| 926-DS90CR217MTDPNPB | DS90CR217MTDPNPB | TSSOP-48 | 3.3 | --- | 1785 | Rising Edge Data Strobe 21-Bit Ch Link Tx | LVTTTL | LVDS | 9.00 | 7.38 | 6.66 |
| 926-DS90CF365AMTNPB | DS90CF365AMTNPB | TSSOP-48 | 3.3 | --- | 1785 | Prog Tx 18-Bit Flat Panel Display Link | LVCNOS | LVDS | 6.53 | 5.35 | 4.82 |
| 926-S90CF384AMTDPNPB | DS90CF384AMTDPNPB | TSSOP-56 | 3.3 | --- | 1820 | Receiver 24-Bit Flat Panel Display Link | LVDS | LVCNOS | 5.71 | 4.59 | 4.18 |
| 926-S90CR286AMTDPNPB | DS90CR286AMTDPNPB | TSSOP-56 | 3.3 | --- | 1848 | Rising Edge Data Strobe Rx 28-Bit Ch Link | LVDS | LVTTTL | 9.75 | 7.99 | 7.21 |
| 926-DS90CR285MTDPNPB | DS90CR285MTDPNPB | TSSOP-56 | 3.3 | --- | 1848 | Rising Edge Data Strobe 28-Bit Ch Link | LVTTTL | LVDS | 9.75 | 7.99 | 7.21 |
| 926-S90CR288AMTDPNPB | DS90CR288AMTDPNPB | TSSOP-56 | 3.3 | --- | 2380 | Rising Edge Data Strobe Rx 28-Bit Ch Link | LVDS | LVTTTL | 12.54 | 10.54 | 9.69 |
| 926-DS90CF366MTDPNPB | DS90CF366MTDPNPB | TSSOP-48 | 3.3 | --- | 2380 | Receiver 18-Bit Flat Panel Display Link | LVDS | LVCNOS | 8.08 | 6.62 | 5.97 |
| 926-DS90CF386MTDPNPB | DS90CF386MTDPNPB | TSSOP-56 | 3.3 | --- | 2380 | Receiver 24-Bit Flat Panel Display Link | LVDS | LVCNOS | 8.08 | 6.62 | 5.97 |
| 926-DS90CR287MTDPNPB | DS90CR287MTDPNPB | TSSOP-56 | 3.3 | --- | 2380 | Rising Edge Data Strobe 28-Bit Ch Link Tx | LVTTTL | LVDS | 12.54 | 10.54 | 9.69 |
| 926-DS90CF385AMTNPB | DS90CF385AMTNPB | TSSOP-56 | 3.3 | --- | 2380 | Transmitter Flat Panel Display | LVCNOS | LVDS | 5.32 | 4.27 | 3.89 |
| 926-DS90CF385AMTNPB | DS90CF385AMTNPB | TSSOP-56 | 3.3 | --- | 2380 | Transmitter Flat Panel Display | LVCNOS | LVDS | 5.70 | 4.65 | 4.18 |
| 926-DS25BR100TSDNOPB | DS25BR100TSDNOPB | LLP-8 | 3.3 | 43 | 3125 | Single Channel Buffer | LVDS, LVPECL, CML | LVDS | 6.99 | 5.70 | 5.12 |
| 926-DS25BR110TSDNOPB | DS25BR110TSDNOPB | LLP-8 | 3.3 | 43 | 3125 | Buffer w/Rx Equalization | LVDS | LVDS | 6.99 | 5.70 | 5.12 |
| 926-DS25BR120TSDNOPB | DS25BR120TSDNOPB | LLP-8 | 3.3 | 43 | 3125 | Buffer w/Tx Pre-Emphasis | LVDS, LVPECL, CML | LVDS | 6.99 | 5.70 | 5.12 |
| 926-DS25BR150TSDNOPB | DS25BR150TSDNOPB | LLP-8 | 3.3 | 35 | 3125 | Single Channel Buffer | LVDS, LVPECL, CML | LVDS | 6.12 | 4.99 | 4.48 |
| 926-DS25BR440TSQNPB | DS25BR440TSQNPB | LLP-40 | 3.3 | 190 | 3125 | Quad Channel Buffer | LVDS, LVPECL, CML | LVDS | 9.43 | 7.83 | 7.12 |
| 926-S25CP104ATSNOPB | DS25CP104ATSNOPB | LLP-40 | 3.3 | 50 | 3125 | 4x4 Crosspoint Switch | LVDS, LVPECL, CML | LVDS | 16.40 | 13.90 | 12.83 |
| 926-DS90C387AVJDNOPB | DS90C387AVJDNOPB | TQFP-100 | 3.3 | --- | --- | Dual Pixel Display Interface/FPD-Link Tx | LVCNOS | LVDS | 8.93 | 7.31 | 6.60 |
| 926-DS90C387VJDNOPB | DS90C387VJDNOPB | TQFP-100 | 3.3 | --- | --- | Dual Pixel Display Interface/FPD-Link Tx | LVCNOS | LVDS | 11.15 | 9.14 | 8.25 |
| 926-DS90LV031ATM | DS90LV031ATM | SOIC-16 | 3.6 | 8 | 400 | Quad CMOS Differential Line Driver | LVDS | LVDS | 2.80 | 2.25 | 2.05 |
| 926-DS90LV032ATM | DS90LV032ATM | SOIC-16 | 3.6 | 15 | 400 | Quad CMOS Differential Line Receiver | LVDS | LVDS | 2.80 | 2.25 | 2.05 |
| 926-DS90C241VSNOPB | DS90C241VSNOPB | TQFP-48 | 3.6 | 65 | 840 | 24-Bit FPD-Link II Serializer & Deserializer | LVTTTL | LVTTTL | 12.35 | 10.12 | 9.13 |
| 926-DS90C031BTM/NOPB | DS90C031BTM/NOPB | SOIC-16 | 5 | 3 | 155 | Quad CMOS Differential Line Driver | LVDS | LVDS | 2.91 | 2.34 | 2.13 |
| 926-DS90C031TM/NOPB | DS90C031TM/NOPB | SOIC-16 | 5 | 3 | 155 | Quad CMOS Differential Line Driver | TTL | LVDS | 2.91 | 2.34 | 2.13 |
| 926-DS90C032BTM/NOPB | DS90C032BTM/NOPB | SOIC-16 | 5 | 10 | 155 | Quad CMOS Differential Line Receiver | LVDS | TTL | 2.67 | 2.15 | 1.93 |
| 926-DS90C032TM/NOPB | DS90C032TM/NOPB | SOIC-16 | 5 | 10 | 155 | Quad CMOS Differential Line Receiver | LVDS | TTL | 2.67 | 2.15 | 1.93 |
| 926-DS90C402M/NOPB | DS90C402M/NOPB | SOIC-8 | 5 | 10 | 155 | Dual LV Differential Signaling Receiver | LVDS | TTL | 2.86 | 2.29 | 2.09 |

For quantities greater than listed, call for quote.

M-LVDS/2-B-LVDS PHYS <500MBPS

| MOUSER STOCK NO. | National Products Part No. | Package Style | Supply Voltage (V) | I _{cc} (Max.) (mA) | Signaling Rate (Mbps) | Description | Input Signal | Output Signal | Price Each | | |
|---------------------|----------------------------|---------------|--------------------|-----------------------------|-----------------------|------------------------|---------------|---------------|------------|------|------|
| | | | | | | | | | 1 | 25 | 100 |
| 926-DS92LV010ATMNPB | DS92LV010ATMNPB | SOIC-8 | 3.3 | 22 | 100 | Single Bus Transceiver | LVTTTL, LVDS | LVTTTL, LVDS | 3.50 | 2.81 | 2.56 |
| 926-DS91M040TSQNPB | DS91M040TSQNPB | LLP-32 | 3.3 | --- | 250 | Quad Transceiver | LVTTTL, MLVDS | LVTTTL, MLVDS | 9.54 | 7.92 | 7.20 |



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