

NATIONAL PRODUCTS Analog ICs

National Products
from Texas Instruments

RoHS Compliant This product is RoHS compliant.

ETHERNET TRANSCEIVERS (CONT.)

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | National Products Part No. | Package Style | Function | Data Rate | Ports | Interface | Supply Voltage (V) | JTAG 11.49.1 | Operating Temperature (°C) | Price Each | | |
|---------------------|----------------------------|---------------|----------|-----------|-------|----------------|--------------------|--------------|----------------------------|------------|-------|-------|
| | | | | | | | | | | 1 | 25 | 100 |
| 926-DP83848TSQ/NOPB | DP83848TSQ/NOPB | LLP-40 | PHY | 10/100 | 1 | MII/RMII | 3.3 | No | -40 to 85 | 5.13 | 4.18 | 3.76 |
| 926-DP83848VYB/NOPB | DP83848VYB/NOPB | LQFP-48 | PHY | 10/100 | 1 | MII/RMII/SNI | 3.3 | No | -40 to 105 | 28.40 | 24.14 | 22.36 |
| 926-DP83848YB/NOPB | DP83848YB/NOPB | LQFP-48 | PHY | 10/100 | 1 | MII/RMII/SNI | 3.3 | Yes | -40 to 125 | 33.20 | 28.22 | 26.14 |
| 926-DP83849VS/NOPB | DP83849VS/NOPB | TQFP-80 | PHY | 10/100 | 2 | MII/RMII/SNI | 3.3 | Yes | -40 to 85 | 11.28 | 9.24 | 8.34 |
| 926-DP83865DVH/NOPB | DP83865DVH/NOPB | PQFP-128 | PHY | 10/100 | 1 | MII/GMII/RGMII | 1.8 | Yes | 0 to 70 | 24.80 | 21.08 | 19.53 |

BUFFER/REPEATERS

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | National Products Part No. | Package Style | Inputs | Outputs | V _{CC} (V) | Max. Speed (Gbps) | Total Throughput (Mbps) | Power Consumption (mW) | Input Level | Output Level | Price Each | | |
|-----------------------|----------------------------|---------------|--------|---------|---------------------|-------------------|-------------------------|------------------------|-------------------|--------------|------------|-------|------|
| | | | | | | | | | | | 1 | 25 | 100 |
| 926-DS10BR150TSD/NOPB | DS10BR150TSD/NOPB | LLP-8 | 1 | 1 | 3.0/3.3 | 1 | 1000 | 53 | LVDS, LVPECL, CML | LVDS | 3.42 | 2.79 | 2.50 |
| 926-DS15BA101SD/NOPB | DS15BA101SD/NOPB | LLP-8 | 1 | 1 | 3.0/3.3 | 1.5 | 1500 | 149 | LVDS, LVPECL, CML | CML, LVDS | 5.70 | 4.65 | 4.18 |
| 926-DS15EA101SQ/NOPB | DS15EA101SQ/NOPB | LLP-16 | 1 | 1 | 3.0/3.3 | 1.5 | 1500 | 207.9 | 800mVp-p Swing | CML, LVDS | 12.01 | 10.17 | 9.39 |
| 926-AN90004TVS/NOPB | SCAN90004TVS/NOPB | TQFP-48 | 4 | 4 | 3.15/3.45 | 1.5 | 6000 | 385 | LVDS, LVPECL, CML | LVDS | 8.10 | 6.64 | 5.99 |

I/O EXPANDERS

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | National Products Part No. | Package Style | Max. Keypad | Special Function Keys | V _{CC} (V) | | FIFO Buffer (bytes) | PWM Outputs | Reset Input | External Clock Input | Watchdog | No. of GPIOs | External Interrupts | Price Each | | |
|----------------------|----------------------------|---------------|-------------|-----------------------|---------------------|------|---------------------|-------------|-------------|----------------------|----------|--------------|---------------------|------------|------|------|
| | | | | | Min. | Max. | | | | | | | | 1 | 25 | 100 |
| 926-LM8333FLQ8Y/NOPB | LM8333FLQ8Y/NOPB | LLP-32 | 72 | 8 | 2.25 | 2.75 | 16 | 1 | Yes | No | Yes | 4 | 2 | 3.00 | 2.45 | 2.20 |

SPECIAL FUNCTION INTERFACE ICs

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | National Products Part No. | Package Style | Data Rate (Max.) (Mbps) | Supply Volt. (V) | Supply Current (mA) | Function | Operating Temp. (°C) | Price Each | | |
|---------------------|----------------------------|---------------|-------------------------|------------------|---------------------|--|----------------------|------------|-------|-------|
| | | | | | | | | 1 | 25 | 100 |
| 926-CLC007BM/NOPB | CLC007BM/NOPB | SOIC-8 | 400 | 5 | 39 | Serial Digital Cable Driver | -40 to 85 | 9.28 | 7.60 | 6.86 |
| 926-LMH0001SQE/NOPB | LMH0001SQE/NOPB | LLP-16 | 540 | 3.3 | 38 | Serial Digital Cable Driver | -40 to 85 | 6.92 | 5.74 | 5.22 |
| 926-LMH0024MA/NOPB | LMH0024MA/NOPB | SOIC-16 | 540 | 3.3 | 60 | Adaptive Cable Equalizer | -40 to 85 | 17.47 | 14.68 | 13.49 |
| 926-LMH0074SQE/NOPB | LMH0074SQE/NOPB | LLP-16 | 540 | 3.3 | 63 | Adaptive Cable Equalizer | -40 to 85 | 18.26 | 15.48 | 14.29 |
| 926-CLC001AJE/NOPB | CLC001AJE/NOPB | SOIC-8 | 622 | 3.3 | 70 | Serial Digital Cable Driver | -40 to 85 | 5.32 | 4.27 | 3.89 |
| 926-LMH0002MA/NOPB | LMH0002MA/NOPB | SOIC-8 | 1485 | 3.3 | 45 | Serial Digital Cable Driver | -40 to 85 | 8.90 | 7.29 | 6.58 |
| 926-LMH0030VS/NOPB | LMH0030VS/NOPB | TQFP-64 | 1485 | 3.3 | 66 | Digital Video Serializer | 0 to 70 | 42.00 | 36.32 | 34.05 |
| 926-LMH0031VS/NOPB | LMH0031VS/NOPB | TQFP-64 | 1485 | 3.3 | 47 | Digital Video Deserializer/Descrambler | 0 to 70 | 41.81 | 36.16 | 33.90 |
| 926-LMH0034MA/NOPB | LMH0034MA/NOPB | SOIC-16 | 1485 | 3.3 | 63 | Adaptive Cable Equalizer | 0 to 85 | 24.80 | 21.08 | 19.53 |
| 926-LMH0044SQ/NOPB | LMH0044SQ/NOPB | LLP-16 | 1485 | 3.3 | 63 | Adaptive Cable Equalizer | 0 to 85 | 24.80 | 22.32 | 20.46 |
| 926-LMH0046MH/NOPB | LMH0046MH/NOPB | TSSOP-20 | 1485 | 3.3 | 100 | Reclocker with Dual Differential Outputs | -40 to 85 | 36.00 | 30.60 | 28.35 |
| 926-LMH0302SQ/NOPB | LMH0302SQ/NOPB | LLP-16 | 2970 | 3.3 | 15 | SDI Cable Driver | -40 to 85 | 10.59 | 8.47 | 5.72 |
| 926-LMH0394SQE/NOPB | LMH0394SQE/NOPB | LLP-16 | 2970 | 2.5 | 45 | Adaptive Cable Equalizer | -40 to 85 | 31.49 | 28.34 | 25.98 |
| 926-LMH0302SQE/NOPB | LMH0302SQE/NOPB | LLP-16 | 2970 | 3.3 | 49 | SDI Cable Driver | -40 to 85 | 12.48 | 10.40 | 9.42 |
| 926-LMH0340SQE/NOPB | LMH0340SQE/NOPB | LLP-48 | 2970 | 3.3 | 73 | SDI Serializer and Driver with LVDS Interface | -40 to 85 | 38.57 | 33.69 | 31.46 |
| 926-LMH0341SQE/NOPB | LMH0341SQE/NOPB | LLP-48 | 2970 | 3.3 | 106 | SDI Deserializer with Loopthrough & LVDS Interface | -40 to 85 | 44.08 | 38.51 | 35.96 |
| 926-LMH0356SQE/NOPB | LMH0356SQE/NOPB | LLP-48 | 2970 | 3.3 | 130 | SDI Relocker with 4:1 Input Mux | -40 to 85 | 32.75 | 29.86 | 25.85 |
| 926-LMH0344SQ/NOPB | LMH0344SQ/NOPB | LLP-16 | 2970 | 3.3 | 85 | SDI Adaptive Cable Equalizer | -40 to 85 | 25.60 | 21.76 | 20.16 |
| 926-LMH0346MH/NOPB | LMH0346MH/NOPB | TSSOP-20 | 2970 | 3.3 | 111 | SDI Relocker with Dual Differential Outputs | -40 to 85 | 40.00 | 32.00 | 31.50 |
| 926-LMH0384SQE/NOPB | LMH0384SQE/NOPB | LLP-16 | 2970 | 3.3 | 70 | SDI Extended Reach & Configurable Adaptive Cable Equalizer | -40 to 85 | 30.80 | 27.72 | 25.41 |
| 926-LMH0387SLE/NOPB | LMH0387SLE/NOPB | TCSP-48 | 2970 | 3.3 | 113 | Configurable I/O Adaptive Cable Equalizer/Cable Driver | -40 to 85 | 24.20 | 21.78 | 19.96 |
| 926-LMH0346SQE/NOPB | LMH0346SQE/NOPB | LLP-24 | 3000 | 3.3 | 111 | SDI Relocker with Dual Differential Outputs | -40 to 85 | 30.61 | 27.90 | 24.16 |
| 926-ANSTA112VS/NOPB | SCANSTA112VS/NOPB | TQFP-100 | ----- | 3.3 | 68 | 7-Port Multidrop IEEE 1149.1 (JTAG) Multiplexer | -40 to 85 | 11.92 | 10.02 | 9.21 |
| 926-ANSTA101SM/NOPB | SCANSTA101SM/NOPB | FBGA-49 | ----- | 3.3 | 1.2 | Low Voltage IEEE 1149.1 STA Master | -40 to 85 | 20.20 | 16.56 | 14.94 |
| 926-ANSTA111SM/NOPB | SCANSTA111SM/NOPB | FBGA-49 | ----- | 3.3 | 130 | SCAN Bridge Addressable IEEE 1149.1 (JTAG) Port | -40 to 85 | 10.80 | 8.86 | 8.00 |
| 926-ANSTA112SM/NOPB | SCANSTA112SM/NOPB | FBGA-100 | ----- | 3.3 | 68 | 7-Port Multidrop IEEE 1149.1 (JTAG) Multiplexer | -40 to 85 | 11.92 | 10.02 | 9.21 |
| 926-ANSTA112VS/NOPB | SCANSTA112VS/NOPB | TQFP-100 | ----- | 3.3 | 68 | 7-Port Multidrop IEEE 1149.1 (JTAG) Multiplexer | -40 to 85 | 11.92 | 10.02 | 9.21 |

HIGH SPEED VIDEO MULTIPLEXER

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | National Products Part No. | Package Style | Channels | -3dB Bandwidth (MHz) | Supply Voltage (V) | Supply Current (mA) | Switching Speed (ns) | Harmonic Distortion (dB) | | Settling Time (ns) | Crosstalk Rejection (dB) | Operating Temp. (°C) | Price Each | | |
|--------------------|----------------------------|---------------|----------|----------------------|--------------------|---------------------|----------------------|--------------------------|-----|--------------------|--------------------------|----------------------|------------|------|------|
| | | | | | | | | 2nd | 3rd | | | | 1 | 25 | 100 |
| 926-LMH6574MA/NOPB | LMH6574MA/NOPB | SOIC-14 | 4 | 500 | 12 | 13 | 10 | -65 | -85 | 17 | 85 | -40 to 85 | 6.66 | 5.35 | 4.87 |

MONOLITHIC SAMPLE AND HOLD CIRCUITS

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | National Products Part No. | Package Style | Supply Voltage (V) | Supply Current (mA) | Input Offset Voltage (mV) | | Input Bias Current (nA) | | Gain Error (Typ.) (%) | Acquisition Time to 0.1% (Typ.) (µs) | Input Compatible | Price Each | | |
|------------------|----------------------------|---------------|--------------------|---------------------|---------------------------|------|-------------------------|------|-----------------------|--------------------------------------|------------------|------------|------|------|
| | | | | | Typ. | Max. | Typ. | Max. | | | | 1 | 25 | 100 |
| 926-LF298M/NOPB | LF298M/NOPB | SOIC-14 | ±18 | 5.5 | 1 | 3 | 5 | 25 | 0.002 | 4 | TTL, PMOS, CMOS | 3.47 | 2.79 | 2.54 |
| 926-LF398AN/NOPB | LF398AN/NOPB | TO-99 | ±18 | 6.5 | 2 | 7 | 10 | 50 | 0.004 | 4 | TTL, PMOS, CMOS | 3.39 | 2.72 | 2.48 |
| 926-LF398H/NOPB | LF398H/NOPB | TO-99 | ±18 | 6.5 | 2 | 7 | 10 | 50 | 0.004 | 4 | TTL, PMOS, CMOS | 8.95 | 7.33 | 6.62 |
| 926-LF398M/NOPB | LF398M/NOPB | TO-99 | ±18 | 6.5 | 2 | 7 | 10 | 50 | 0.004 | 4 | TTL, PMOS, CMOS | 1.77 | 1.42 | 1.28 |
| 926-LF398N/NOPB | LF398N/NOPB | TO-99 | ±18 | 6.5 | 2 | 7 | 10 | 50 | 0.004 | 4 | TTL, PMOS, CMOS | 1.67 | 1.35 | 1.21 |

MOTION CONTROLLERS

For quantities greater than listed, call for quote.

| MOUSER STOCK NO. | National Products Part No. | Package Style | V _S (V) | | Max. Freq. (MHz) | Clock Pulse Width | Clock Period | Output Data | Input Voltage (High/Low) | Output Voltage (High/Low) | Supply Current (mA) | Operating Temp. (°C) | Price Each | | |
|-------------------|----------------------------|---------------|--------------------|------|------------------|-------------------|--------------|--------------------|--------------------------|---------------------------|---------------------|----------------------|------------|-------|-------|
| | | | Min. | Max. | | | | | | | | | 1 | 25 | 100 |
| 926-LM628N-6/NOPB | LM628N-6/NOPB | DIP-28 | 4.5 | 5.5 | 6 | 78 | 166 | 8 or 12-bit DAC | 2.0/0.8 | 2.4/0.4 | 110 | -40 to 85 | 41.81 | 36.16 | 33.90 |
| 926-LM629M-6/NOPB | LM629M-6/NOPB | SOIC-28 | 4.5 | 5.5 | 6 | 78 | 166 | 8-bit sign-mag PWM | 2.0/0.8 | 2.4/0.4 | 110 | -40 to 85 | 41.81 | 36.16 | 33.90 |
| 926-LM628N-8/NOPB | LM628N-8/NOPB | DIP-28 | 4.5 | 5.5 | 8 | 57 | 125 | 8 or 12-bit DAC | 2.0/0.8 | 2.4/0.4 | 110 | -40 to 85 | 59.84 | 52.80 | 50.16 |
| 926-LM629M-8/NOPB | LM629M-8/NOPB | SOIC-28 | 4.5 | 5.5 | 8 | 57 | 125 | 8-bit sign-mag PWM | 2.0/0.8 | 2.4/0.4 | 110 | -40 to 85 | 59.84 | 52.80 | 50.16 |
| 926-LM629N-8/NOPB | LM629N-8/NOPB | SOIC-24 | 4.5 | 5.5 | 8 | 57 | 125 | 8 or 12-bit DAC | 2.0/0.8 | 2.4/0.4 | 110 | -40 to 85 | 59.84 | 52.80 | 50.16 |
| 926-LMD18200T | LMD18200T | TO-220 | 5 | 12 | 300 | 100 | - | sign-mag PWM | 12/0.8 | 0/55 | 13 | -40 to 85 | 17.77 | 14.94 | 13.72 |

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