

INTERFACE—Display Drivers

| Function | Device | Source | Line | Function | Device | Source | Line | Function | Device | Source | Line | |
|---|--|--|---|---|--|-------------------------------|---|--|---|----------------------|-------|-----|
| AC Plasma Axis Driver | SN65500E SN75500E | TI | 5 | Display, Numeric, LED | (Cont'd) | | | FIP/LED Driver | μPD6700 | NEC | 100 | |
| Anode Driver (high-voltage vacuum fluorescent) | MSC1163 | OKI | | Display, Hexadecimal | TIL311 TIL311A | TI | | FIP Row/Column Driver, 200V (40 drivers) | μPD16304 | NEC | | |
| Anode Driver, 40-Bit | MSC7751 | OKI | | Dot Matrix LCD Controller Driver (8 character/2-line) | NJU6408 | NJR (3633) | 60 | Flasher, Pulse Generator | U175M U176M | AEG Corp AEG Corp | | |
| Anode/Grid Driver, 10-Bit | MSC1150 | OKI | | Dot Matrix LCD Driver (16-character/2-line) | NJU6420 | NJR (3633) | | Fluorescent Display Driver | HA16617 HA16619 | Hitachi Hitachi | | |
| Anode/Grid Driver, 20-Bit | MSC1165 MSC1171 | OKI OKI | | Dot Matrix LCD Driver (20-character/2-line) | NJU6423 | NJR (3633) | | Fluorescent Indicator Panel Driver, 21-Bit | μPD6323 | NEC | 105 | |
| Anode/Grid Driver, 32-Bit | MSC1173 | OKI | | Dot Matrix LCD Driver (24-character/2-line) | NJU6406 | NJR (3633) | | Gas Discharge Cathode Driver (225V max.) | DI220 | Dionics | | |
| Anode/Grid Driver, 40-Bit | MSC1172 | OKI | | Dot Matrix LCD 40-Segment Driver | NJU6407 NJU6407B | NJR (3633) NJR | 65 | Graphic LCD Display Controller | SED1351F | S-MOS | | |
| Bargraph LED | LM3914 LM3915 RC1405 LB1409 TC940A | National National Rochester Sanyo TeledyneC | | 10 | Dot Matrix LCD 64-Segment Driver | NJU6417 NJU6417B | NJR (3633) NJR | | Graphic Video LCD Display Controller | SED1345F | S-MOS | |
| Bargraph Vacuum Fluorescent | LM3916 | National | | 15 | Driver, 7-Segment (vacuum fluorescent) | MSC1178 MSC1179 MSC1190 | OKI OKI OKI | | Grid/Anode Driver (high-voltage vacuum fluorescent) | MSC1164 | OKI | |
| Column Driver, -250V DC-PDP (64 drivers) | μPD16301 | NEC | | 20 | Electroluminescent Column Driver | SN65554 SN65555 SN65556 | TI TI TI | | Grid Driver (high-voltage vacuum fluorescent) | MSC1162 | OKI | 110 |
| Column Driver, 80V AC-PDP/EL/FIP (64 drivers) | μPD16306 | NEC | Electroluminescent Column Driver, 32 Outputs | | SN75555 SN75556 | TI TI | 75 | Grid Driver, 40-Bit | MSC7701 | OKI | | |
| Controller, 12-Segment, 16-Digit | MSC7110 | OKI | Electroluminescent Even Column Driver, 32 Outputs | | SI9554 SN55554 SN75554 | Siliconix TI TI | | High Voltage Display Driver, 25 Segments | HI8043 | Holt | | |
| Controller, 16-Segment, 12-Digit | MSC7112 | OKI | Electroluminescent Even Row Driver, 32 Outputs | | SN55552 SN65552 SN75552 | TI TI TI | 80 | High Voltage Display Driver, 30 Segments | HI8010-35 HI8010-36 HI8010-37 | Holt Holt Holt | 115 | |
| DC Plasma and Gas Discharge Data Line Driver | SN751508 SN751518 | TI TI | Electroluminescent High Voltage (octal, 450 V) | | USH5801 USH5802 | Universal Universal | | High Voltage Display Driver, 34 Segments | HI8010-31 | Holt | | |
| DC Plasma and Gas Discharge Scan Line Driver | SN751506 SN751516 | TI TI | Electroluminescent, High Voltage (200 V) | | USH5800 | Universal | | High Voltage Display Driver, 36 Segments | HI8010-32 HI8010-33 HI8010-34 | Holt Holt Holt | | |
| DC Plasma Data Line Driver | 751508 751516 751518 | Krueger (3591) Krueger Krueger | Electroluminescent Odd Column Driver, 32 Outputs | | SI9553 SN55553 SN75553 | TI TI TI | 85 | High Voltage Display Driver, 53 Segments | HI8042 HI8042M HI8042M-01 | Holt Holt Holt | 120 | |
| DC Plasma Scan Line Driver | 751506 | Krueger (3591) | Electroluminescent Odd Row Driver, 32 Outputs | | SN55551 SN65551 SN75551 | TI TI TI | 90 | High Voltage Display Driver, 69 Segments | HI8041 HI8041M HI8041M-01 | Holt Holt Holt | 125 | |
| Display, Alphanumeric, LED | TIL305 | TI | Electroluminescent Row Driver, 32 Outputs | | SN65557 SN65558 SN75557 SN75558 | TI TI TI TI | | High Voltage Display Driver, 86 Segments | HI8040 HI8040M HI8040M-01 | Holt Holt Holt | | |
| Display Column Driver, 32-Channel Gray Shade | HV3806 | Supertex | Electroluminescent Row Driver, 34 outputs | | SN65563A SN65564A SN75563A SN75564A | TI TI TI TI | 95 | High Voltage Driver for Panel, Vacuum Fluorescent, Electroluminescent Displays | μPD16310 | NEC | | |
| Display Controller/Driver (bargraph and numeric) | MSC1951-01 | OKI | | | | | Latched Driver, 12-Bit Serial Input | M54977 | Mitsubishi | 130 | | |
| Display Driver, Alphanumeric | MSC1937-01 | OKI | | | | | LCD Alphanumeric Controller/Driver, Intelligent | μPD7225 | NEC | | | |
| Display Driver, Eight 7-Segment | ICM7228A ICM7228B | Harris Harris | 35 | | | | LCD Character Display Driver | SED1278F | S-MOS | | | |
| Display Driver, Eight 7-Segment, Microprocessor Compatible | ICM7228AI ICM7228AMI ICM7228BI ICM7228BBI ICM7228CI ICM7228CMI ICM7228DI ICM7228DMI | Harris Harris Harris Harris Harris Harris Harris Harris | 40 | | | | LCD Clock Driver, 3- 1/2 Digit. | MIC8027 | Micrel | | | |
| Display Driver, 35 High-Voltage LCD | HI8011 | Holt | | | | | LCD, Column Driver Controller (108 outputs, high voltage) | H01373 | Hughes | | | |
| Display Driver, 7-Segment Gas Discharge Display Cathode Driver with BCD Decoder | DI8884A | Dionics | | | | | LCD Common Driver | LC7942 | Sanyo | 135 | | |
| Display, Numeric, LED | TIL302 TIL302A | TI TI | 45 | | | | LCD Controller | M50530FP M6265 | Mitsubishi OKI | | | |
| | (Continued) | | | | | | LCD Controller and Column Driver, 10 Way Multiplex | V7036 | EM Micro | | | |
| | | | | | | | LCD Controller and Driver | LC7985 | Sanyo | | | |

† Min Temp Range (-55° to 125° C)

‡ High Rad Resistance

* Typical Value

• Behavioral Model Available

‡ Low Voltage Devices

Bold face indicates additional data is provided on the page noted.

INTERFACE—Display Drivers (Cont'd)

| Function | Device | Source | Line | Function | Device | Source | Line | Function | Device | Source | Line |
|--|-----------|---------------|------|--|---------------|----------------|------|--|------------|---------------|------|
| LCD Controller/Driver (for dot-matrix) | GM9120 | GoldStar | | LCD Driver, Large Panel | LCD1600 | Kruöger (3591) | | LCD Driver, 32-Channel | HV6706 | Supertax | |
| LCD Controller/Driver, 2 Row x 16 Character Dot Matrix | H0216 | Hughes | | SED1180F | S-MOS | | 50 | LCD Driver, 32-Dot Row | M5238 | OKI | |
| LCD Controller/Driver, 2 Row x 8 Character Dot Matrix | H0208 | Hughes | | SED1181F | S-MOS | | | LCD Driver, 33-Segment w/Serial Interface | MC145453 | Motorola | 95 |
| LCD Controller, Large Panel | SED1330F | S-MOS | | SED1190F | S-MOS | | | LCD Driver, 34 Segments (external oscillator, 35V max.) | HI8010-65 | Holt | |
| LCD Controller with Built-In Character Generator | HD43160AH | Hitachi | 5 | SED1191F | S-MOS | | | LCD Driver, 34 Segments (internal oscillator, 35V max.) | HI8010-67 | Holt | |
| LCD Controller, Two Rows by 8 Character | H01421 | † Hughes | | SED1600F | S-MOS | | 55 | LCD Driver, 34 Segments (selectable internal or external oscillator) | HI8010-01 | Holt | |
| LCD Controller, 16-Dot Row, 40-Dot Column | M6222 | OKI | | SED1610F | S-MOS | | | HI8010-66 | Holt | | 100 |
| LCD/CRTC Controller (640x400 Dot Matrix) | TC7779 | Toshiba | | LCD Driver, Low Multiplex | V6116 | EM Micro | | HI8010M-01 | † Holt | | |
| LCD Display Driver, 32-Segments | MIC8014 | Micrel (3621) | | V6118 | ‡ EM Micro | | | HI8010M-01 | † Holt | | |
| LCD Dot Matrix Controller | M6240 | OKI | 10 | LCD Driver, Low Multiplex (2 rows, 38 columns) | V6120-2 | ‡ EM Micro | | HI8010M-31 | † Holt | | |
| M6255 | OKI | | | LCD Driver, Low Multiplex (4 rows, 36 columns) | V6120-4 | ‡ EM Micro | | LCD Driver, 35V max, 38 Outputs | HI8010 | Holt | |
| LC7980 | Sanyo | | | LCD Driver, Low Multiplex (8 rows, 32 columns) | V6120-8 | ‡ EM Micro | | LCD Driver, 38 Segments | MIC8011 | Micrel (3621) | |
| LC7981 | Sanyo | | | LCD Driver, Segment Selectable (8/16/24/32) | PCF8568 | Philips | | LCD Driver, 38 Segments (external oscillator) | HI8010M-04 | † Holt | 105 |
| LR3692 | Sharp | | | LCD Driver, Static | V6117 | EM Micro | 60 | HI8010M-34 | † Holt | | |
| LCD Dot Matrix Controller/Driver, Intelligent | μPD7227 | NEC | 15 | LCD Driver with Character Generator | LC7584N | Sanyo | | LCD Driver, 38 Segments (external oscillator, 35V max.) | HI8010-04 | Holt | |
| μPD7228 | NEC | | | LCD Driver with High Voltage Charge Pump, 30 Segments (external osc, 40V max) | ICS1504E1 | IntCirSys | | HI8020-63 | Holt | | |
| LCD Dot Matrix Controller, 16-Digit | MSC7128 | OKI | | ICS1504E2 | IntCirSys | | | HI8020-61 | Holt | | |
| LCD Dot Matrix Controller, 8-Digit | MSC7125 | OKI | | ICS1504E3 | IntCirSys | | | HI8020M-83 | † Holt | | |
| LCD Dot Matrix Display Controller | HD61830 | Hitachi | | LCD Driver (with 40-Channel outputs) | GM9110 | GoldStar | 65 | HI8020M-81 | † Holt | | 110 |
| LCD Dot Matrix Display Controller and Driver | HD44780 | Hitachi | 20 | LCD Driver, Four Digit, Seven Segment | CD7211 | Harris | | HI8020M-84 | † Holt | | |
| LCD Dot Matrix Driver | HD44102CH | Hitachi | | LCD Driver, 3- 3/4 Digit | TC814 | TeledyneC | | LCD Driver, 38 Segments (internal oscillator) | HI8010M-03 | † Holt | |
| HD44103CH | Hitachi | | | TC822 | TeledyneC | | | HI8010M-33 | † Holt | | |
| HD44105CH | Hitachi | | | TC823 | TeledyneC | | | HI8010M-03 | † Holt | | |
| HD61102 | Hitachi | | | TC824 | TeledyneC | | 70 | LCD Driver, 38 Segments (internal oscillator, 35V max.) | HI8010-03 | Holt | 115 |
| HD61103A | Hitachi | | | LCD Driver, 5-Digit, 8-Segment | M58292 | OKI | | HI8020-61 | Holt | | |
| HC0515 | Hughes | | | LCD Driver, 20-Bit | μPD6332 | NEC | | HI8020-80 | Holt | | |
| HC0538A | Hughes | | | LCD Driver, 30 Segments | MIC8010 | Micrel (3621) | | HI8020M-61 | † Holt | | |
| HC0539A | Hughes | | | MIC8012 | Micrel (3621) | | 75 | HI8020M-80 | † Holt | | |
| HC0540 | Hughes | | | MIC8013 | Micrel (3621) | | | LCD Driver, 38 Segments (selectable internal or external oscillator) | HI8010-02 | Holt | 120 |
| HC0550 | Hughes | | | LCD Driver, 30 Segments (external oscillator) | HI8010M-05 | † Holt | | HI8010-16 | † Holt | | |
| HC0551 | Hughes | | | HI8010M-35 | † Holt | | | HI8010M-02 | † Holt | | |
| HC0607 | Hughes | | | LCD Driver, 30 Segments (external oscillator, 35V maximum) | HI8010-05 | Holt | | HI8010M-32 | † Holt | | |
| SED1200 | S-MOS | | | LCD Driver, 30 Segments (internal oscillator) | HI8010M-07 | † Holt | | LCD Driver, 40 Segments | M6004 | EM Micro | |
| LH5823 | Sharp | | | HI8010M-37 | † Holt | | | LCD Driver, 40/80/120/160 Segments | PCF8576 | Philips | 125 |
| LH5826 | Sharp | | | LCD Driver, 30 Segments (internal oscillator, 35V max.) | HI8010-07 | Holt | | LCD Driver, 40-Channel | M50521FP | Mitsubishi | |
| LCD Dot Matrix Driver, 40-Segment | LH5006A | Sharp | 35 | LCD Driver, 30 Segments (selectable internal or external oscillator, 35V max.) | HI8010-06 | Holt | | LCD Driver, 40-Dot Column | M5259 | OKI | |
| LCD Dot Matrix Driver, 80-Segment | LH5021A | Sharp | | HI8010-15 | † Holt | | | M5839B | OKI | | |
| LCD Driver | LC7580 | Sanyo | | HI8010M-06 | † Holt | | | LCD Driver, 48-Dot | M5219B | OKI | |
| LC7582 | Sanyo | | | HI8010-15 | † Holt | | | LCD Driver, 56-Dot | M5221 | OKI | 130 |
| LCD Driver, Active Matrix | M5280 | OKI | 40 | HI8010M-06 | † Holt | | | LCD Driver, 64-Channel | HV6101 | Supertax | |
| M5282 | OKI | | | HI8010M-36 | † Holt | | | LCD Driver, 64-Dot Row | M5278 | OKI | |
| LCD Driver, Bit Serial (hex, BCD) | MAX7232 | Maxim | | HI8010M06 | † Holt | | | LCD Driver, 68-Dot Row | M5298 | OKI | |
| LCD Driver, Bit Serial (upper case ASCII) | MAX7234 | Maxim | | LCD Driver, 32 Segments | M6003 | ‡ EM Micro | | LCD Driver, 80 Output Direct Drive/ Multiplexed | H0480 | Hughes | |
| LCD Driver, Column Output (160 segment) | SED1704 | S-MOS | | LCD Driver, 32 Segments (external oscillator, 35V max.) | HI8020-84 | Holt | | LCD Driver, 80/160-Dot | M5265 | OKI | 135 |
| LCD Driver, Column Output (160 segment drive outputs) | SED1702 | S-MOS | 45 | LCD Driver, 32 Segments (selectable internal or external oscillator) | HI8020-85 | † Holt | | LCD Driver, 80-Channel | M50524FP | Mitsubishi | |
| LCD Driver, Frequency Display | LC7583 | Sanyo | | LCD Driver, 32 Segments (selectable internal or external oscillator) | HI8020-85 | † Holt | 90 | | | | |

† Mil Temp Range (-55° to 125°C)

‡ High Rad Resistance

* Typical Value

* Behavioral Model Available

‡ Low Voltage Device

Bold face indicates additional data is provided on the page noted.

INTERFACE—Display Drivers (Cont'd)

| Function | Device | Source | Line | Function | Device | Source | Line | Function | Device | Source | Line |
|---|-------------------------|-----------|---|---|--|--|-----------------------------------|--|------------|------------|------|
| LCD Driver, 80-Dot Column | M5279 | OKI | 5 | LED Digit Driver | MSL966 | OKI | 35 | LED Driver, 12-Dot | IR2E05 | Sharp | 85 |
| | M5299 | OKI | | LED Display Driver for 5 or 10 LEDs | U237B | AEG Corp | 40 | IR2E16 | Sharp | | |
| LCD Driver, 80-Dot Row/Column | M5260 | OKI | | U244B | AEG Corp | IR2E30 | | Sharp | | | |
| | LCD Driver, 100 Segment | μPD16410 | | NEC | U247B | AEG Corp | | IR2E38 | Sharp | | |
| U254B | | | | | AEG Corp | IR2E41 | | Sharp | | | |
| LCD Driver (120 output horizontal) | μPD16400 | NEC | | U257B | AEG Corp | IR2406 | | Sharp | | | |
| | | | | U267B | AEG Corp | IR2431 | | Sharp | | | |
| LCD Driver (120 output vertical) | μPD16402 | NEC | | LED Display Driver, 2 Digits | MM5481 | National | IR2432 | Sharp | | | |
| | | | | IR2433 | Sharp | LED Driver, 16-Bit (anode common) | M66311 | Mitsubishi | | | |
| LCD Driver (140 output vertical) | μPD16404 | NEC | | LED Display Driver, 5 LEDs | TA7654 | | Toshiba | LED Driver, 16-Bit (cathode common) | M66310 | Mitsubishi | |
| | | | | TA7655 | Toshiba | LED Driver, 16-Dot | IR2E03 | Sharp | | | |
| LCD Driver, 160 Segment | μPD16412 | NEC | | LED Display Driver, 8-Digit, Serially Interfaced | MAX7219C | Maxim | IR2E04 | Sharp | | | |
| | | | | LED Driver, 16 ± Bit (cathode common) | M66314 | Mitsubishi | | | | | |
| LCD Driver (192 output) | μPD16423 | NEC | | LED Display Driver, 33 Outputs, 15 mA Sink Capability | MM5486 | National | LED Driver, 32-Bit (anode common) | M66313 | Mitsubishi | | |
| | | | | M5486 | SGS-Thomson | LED Driver, 15 Outputs | U3081M | AEG Corp | | | |
| LCD Driver, 192 Segment | μPD16411 | NEC | | LED Display Driver, 34 Outputs, 15 mA Sink Capability | M5450 | SGS-Thomson | LED Driver, 19 Outputs | U3082M | AEG Corp | | |
| | | | | U3084M | AEG Corp | | | | | | |
| LCD Driver, 30 Segments (internal osc, 40V max) | ICS1502E1 | IntCirSys | | LED Display Driver, 35 Outputs, 15 mA Sink Capability | M5451 | SGS-Thomson | U3085M | AEG Corp | | | |
| | | | | LED Driver, 4-Digit w/ I ² C Bus Interface | SAA1064 | Philips | | | | | |
| LCD Driver, 30 Segments (selectable internal or external oscillator, 40V max) | ICS1502E3 | IntCirSys | | LED Display Driver, 3 1/2 Digits | MM5480 | National | LED Driver, 8 Outputs | U3088M | AEG Corp | | |
| | | | U3089M | AEG Corp | | | | | | | |
| LCD Driver, 32 Segments (external osc, 40V max) | ICS1505E2 | IntCirSys | LED Driver, Scale Controller | U2066B | AEG Corp | LED Flasher (See also Flasher this section) | LM3909 | National | | | |
| | | | U2067B | AEG Corp | LED/Lamp Driver Circuit | HM5401 | Hualon Micro | | | | |
| LCD Driver, 32 Segments (internal osc, 40V max) | ICS1505E1 | IntCirSys | LED Driver, Stereo Control Indicator | U2068B | AEG Corp | Level Meter, 8-Dot | MSM9353 | OKI | | | |
| | | | LED Driver System, 8 Decade, 8x8 Memory, Decoder (versions either hardware or processor controlled; with 7 segment and digit drivers for either common anode or cathode LEDs; 2-6 V supply) | | | | | Level Meter, 32-Dot | MSM9356 | OKI | |
| LCD Driver, 32 Segments (selectable internal or external oscillator, 40V max) | ICS1505E3 | IntCirSys | LED Driver, 4-Digit, 7-Segment | V6010 | EM Micro | Multiplexed LCD Driver, Master and Slave | MM58201 | National | | | |
| | | | | LED Driver, 4-Digit, 7-Segment | V6010 | | EM Micro | Multiplexed LCD Driver, Master and Slave with Serial Interface | MC145000 | Motorola | |
| LCD Driver, 38 Segments (external osc, 40V max) | ICS1501E1 | IntCirSys | LED driver, 4x6 Dot Matrix | μPD6322 | NEC | MC145001 | Motorola | | | | |
| | | | | Mux/Display Driver | MX313/323 | MX-COM | | | | | |
| LCD Driver, 38 Segments (selectable internal or external oscillator, 40V max) | ICS1501E2 | IntCirSys | LED Driver, 5-Dot | IR2E01 | Sharp | Open Collector Driver (150V max.) | DI480 | Dionics | | | |
| | | | | DI481 | Dionics | | | | | | |
| LCD Driver, 38 Segments (selectable internal or external oscillator, 40V max) | ICS1501E3 | IntCirSys | IR2E31 | Sharp | DI482 | Dionics | | | | | |
| | | | IR2E32N | Sharp | Plasma Display Row Driver (41 bit) | μPD16300GF | NEC | | | | |
| LCD Driver, 40-Channel Output | HD44100H | Hitachi | LED Driver, 7 Segment | SL5451 | † Lansdale (3600) | μPD16307 | NEC | | | | |
| | | | | MM5450 | Micrel (3621) | Plasma Display Row Driver (64 bit) | μPD16309 | NEC | | | |
| LCD Driver, 6-bit Parallel | MAX7231 | Maxim | MM5451 | Micrel (3621) | Plasma Driver, AC | SN55501E | TI | | | | |
| | | | LED Driver, 7-Dot | IR2E02 | Sharp | Quartz Analog Clock Circuit, 32 kHz | CD22777 | Harris | | | |
| LCD Driver, 75 Segments (external osc, 40V max) | ICS1521E4 | IntCirSys | IR2E19 | Sharp | Row Driver for Electroluminescent or Plasma Displays | μPD6337 | NEC | | | | |
| | | | IR2E29 | Sharp | Row Driver, 200V AC-PDP (40 drivers) | μPD16305 | NEC | | | | |
| LCD Driver, 75 Segments (internal osc, 40V max) | ICS1521E2 | IntCirSys | LED Driver, 7-Segment | IR2C07 | Sharp | Row Driver, 200V DC-PDP (41 drivers) | μPD16300 | NEC | | | |
| | | | LED Driver, 8-Dot LED Level Indicator | M51909 | Mitsubishi | Row Driver, 250V Electroluminescent (40 drivers) | μPD16302 | NEC | | | |
| LCD Driver, 80-Channel Output | HD61100A | Hitachi | LED Driver, 8/16-Segment, serial input | CD22401 | Harris | Segment Driver for Gas Discharge Displays | DI232 | Dionics | | | |
| | | | DI242 | Dionics | | | | | | | |
| LCD Driver, 80 Segments (external osc, 40V max) | ICS1502E2 | IntCirSys | LED Driver, 8-Bit | μPD6345 | NEC | | | | | | |
| | | | LED Driver, 8-Bit (three-state output) | M66312 | Mitsubishi | | | | | | |
| LCD Graphics Driver | SED1500 | S-MOS | | | | | | | | | |
| | | | | | | | | | | | |
| LCD Panel Driver (120 output vertical) | μPD16422 | NEC | | | | | | | | | |
| | | | | | | | | | | | |
| LCD Row Driver (common output) | SED1703 | S-MOS | | | | | | | | | |
| | | | | | | | | | | | |
| LCD, Row Driver Controller (108 outputs, high voltage) | HO1374 | † Hughes | | | | | | | | | |
| | | | | | | | | | | | |
| LCD Segment Driver | LC7940 | Sanyo | | | | | | | | | |
| | | | | | | | | | | | |
| LCD 5x7 Dot Driver | LH5003 | Sharp | | | | | | | | | |
| | | | LH5004 | Sharp | | | | | | | |
| LCD, 16 Character Extender | HO1371A | † Hughes | | | | | | | | | |
| | | | | | | | | | | | |
| LCD, 80-output Direct Drive | HO1371B | † Hughes | | | | | | | | | |
| | | | | | | | | | | | |
| LED Bar Display Driver, 10 LEDs | TA7612A | Toshiba | | | | | | | | | |
| | | | | | | | | | | | |

† Mil Temp Range (-55° to 125°C)

‡ High Rad Resistance

* Typical Value

† Behavioral Model Available

‡ Low Voltage Devices

Bold face indicates additional data is provided on the page noted.

INTERFACE—Display Drivers (Cont'd)

| Function | Device | Source | Line | Function | Device | Source | Line | Function | Device | Source | Line |
|--|-----------------|---------------|------|---|-------------|-----------|------|---|-------------------|----------|----------|
| Segment Driver with Dimming Function and Keyscan, 60-Bit Duplex | MSC1200 | OKI | | Vacuum Fluorescent, 32-Channel | HV518 | Supertex | | BCD to 7-Segment Decoder/Driver, Active Low, Open Collector, 30 V Output | | | (Cont'd) |
| Segment Driver with Dimming Function, 33-Bit | MSC1187 | OKI | | Vacuum Fluorescent, 40-Channel | | | | SN5446A | † TI | | 105 |
| Segment Driver, 33-Bit | | | | HV701 | Supertex | | | SN5447A | † TI | | |
| MSC1149 | OKI | | | HV702 | Supertex | | 45 | SN74LS247 | TI | | |
| MSM5267B-15 | OKI | | | HV711 | Supertex | | | SN74LS47 | TI | | |
| MSM5328 | OKI | | 5 | HV712 | Supertex | | | SN7446A | TI | | |
| Serial to Parallel Converter, 32-Channel | | | | Video Display Driver | 1902 | TeledyneC | | SN7447A | TI | | |
| HV8308 | Supertex | | | Video or RGB to LCD Interface Controller | | | | | | | |
| HV8408 | Supertex | | | SED1341F | S-MOS | | | BCD to 7-Segment Decoder/Driver, for Liquid Crystal Displays | CD4055B | † Harris | 110 |
| HV8708 | Supertex | | | | | | | TC4055B | Toshiba | | |
| HV8808 | Supertex | | | BCD (hexadecimal) to 7-Segment Decoder/Driver with Latch Active Low, Open Collector | 9370C | National | | BCD to 7-Segment Decoder/Driver, 2-Digit, Direct Driver for Common Anode LED Displays | DS8669 | National | |
| HV9308 | Supertex | | | | | | | BCD to 7-Segment Latch/Decoder/Driver (CMOS with bipolar output) | | | |
| HV9408 | Supertex | | 10 | BCD (hexadecimal) to 7-Segment LED Decoder/Driver, Constant Current, with Latch | 9368C | National | | CD4511B | † Harris | | |
| HV9708 | Supertex | | | | | | | MC14511BC | Motorola | | |
| HV9808 | Supertex | | | BCD Plus 1 to 7-Segment | U143M | AEG Corp | | MC14513BC | Motorola | | 115 |
| Serial to Parallel Converter, 64-Channel (for electroluminescent displays) | | | | | | | | CD4511BC | National | | |
| HV7708 | Supertex | | | BCD to 7-Segment Decoder/Driver | | | | CD4511BM | † National | | |
| HV7808 | Supertex | | 15 | MC14547BC | Motorola | | | HEF4511BD | Philips | | |
| Sink Driver, Eight High Voltage Outputs (for lamps, solenoids, displays, relays, print heads, heaters, etc.) | MIC4887 | Micrel (3621) | | MC14558B | Motorola | | | HCC4511B | SGS-Thomson | | |
| Symmetric Row Driver, 34-Channel (for AC thin-film electroluminescent displays) | HV7022 | Supertex | | BCD to 7-Segment Decoder/Driver, Active High, Resistive Pull-Up | | | | HCF4511B | SGS-Thomson | | 120 |
| Symmetric Row Drivers, 40-Channel (for AC thin-film electroluminescent displays) | HV7225 | Supertex | | GD8307 | GoldStar | | | HEF4511B | Philips | | |
| Timer (CMOS 555) Low Power | | | | HD74LS248 | Hitachi | | 55 | TC4511B | Toshiba | | |
| HI7555M | † Holt | | | HD74LS249 | Hitachi | | | BCD to 7-Segment Latch/Decoder/Driver, for Liquid Crystal Displays | | | |
| HI7555M-01 | † Holt | | 20 | HD74LS48 | Hitachi | | | CD4543B | Harris | | |
| Totem-Pole Output | DI740 | Dionics | | HD74LS49 | Hitachi | | | BCD to 7-Segment Latch/Decoder/Driver (strobed latch), for Liquid Crystal Displays | | | |
| TV On-Screen Display Driver | LR67151 | Sharp | | HD74LS49 | Hitachi | | | CD4056B | † Harris | | |
| Vacuum Fluorescent Display Driver, 20-Bit | μPD6340 | NEC | | MC74LS249 | Motorola | | | LS7100 | † LSI Comp (3611) | | 125 |
| Vacuum Fluorescent Display Driver, 35V (alphanumeric or dot matrix) | MM58342 | National | | SN54LS249 | Motorola | | | MC14543BC | Motorola | | |
| Vacuum Fluorescent Driver | | | | SN74LS248 | Motorola | | | TC4056B | Toshiba | | |
| LC7573M | Sanyo | | | SN74LS48 | Motorola | | | BCD to 7-Segment Latch/LCD/Decoder/Driver (ripple blanking) | MC14544BC | Motorola | |
| LC7574E/W | Sanyo | | | 54LS248 | † National | | | BCD to 7-Segment LED Decoder/Driver | CA3168 | Harris | |
| SN65513B | TI | | | 54LS249 | † National | | | BCD to 7-Segment LED Decoder/Driver, Constant Current | NE587 | Philips | 130 |
| SN75513B | TI | | 25 | 54LS48 | † National | | | BCD to 7-Segment LED Decoder/Driver with Latch, Output 0-9, —, E, H, L, P | 9374C | National | |
| Vacuum Fluorescent Driver (8-bit parallel-in/out, negative voltage) | | | | 54LS49 | † National | | | BCD Seven-Segment Cathode Driver (125V max.) | DI270B | Dionics | |
| MSL915 | OKI | | | 74LS248 | National | | | BCD-to-Decimal Decoder/Driver (for lamps) | | | |
| MSL917 | OKI | | 30 | 74LS249 | National | | | 380A/C | TeledyneC | | |
| Vacuum Fluorescent Driver (8-bit parallel-in/out, positive voltage) | | | | 74LS249 | National | | | 381A/C | TeledyneC | | |
| MSL912 | OKI | | | 74LS48 | National | | | BCD-to-Decimal Decoder/Driver (nixie driver) | | | |
| MSL918 | OKI | | | 5448 | † Rochester | | | DM5441A | † National | | 135 |
| Vacuum Fluorescent, Level Shifted (50 V operation) | DI512BR | Dionics | | 7448 | Rochester | | | 382A/C | TeledyneC | | |
| Vacuum Fluorescent, Level Shifted (80 V operation) | DI513BR | Dionics | | 9307 | Rochester | | | BCD-to-Decimal Decoder/Driver with Blanking (for cold cathode indicator tubes) | | | |
| Vacuum Fluorescent, Level Shifted (110 V operation) | DI514BR | Dionics | | T74LS248B1 | SGS-Thomson | | | 54141 | † Rochester | | |
| Vacuum Fluorescent Tube Driver | MSM5267-15 | OKI | | SN54LS248 | † TI | | | 74141 | Rochester | | |
| Vacuum Fluorescent, 8-Line | | | | SN54LS248 | † TI | | | BCD-to-Seven Segment Decoder/Driver with Active Pull-up | | | |
| UCN5815A | Allegro Micro | | | SN54LS48 | † TI | | | SN54LS247 | Motorola | | |
| UCS5815H | † Allegro Micro | | | SN54LS49 | † TI | | | SN54LS248 | Motorola | | |
| Vacuum Fluorescent, 10-Line | | | | SN54LS49 | † TI | | | SN54LS47 | Motorola | | |
| UCN5810A | Allegro Micro | | 35 | SN5448 | † TI | | | SN54LS48 | Motorola | | 140 |
| Vacuum Fluorescent, 20 Outputs | TL5812I | TI | | BCD to 7-Segment Decoder/Driver, Active Low, Open Collector, 15 V Output | | | | Hex TTL to LED Bulb Driver, with Latch | DS8859 | National | |
| Vacuum Fluorescent, 32 Outputs | SN65518 | TI | 40 | HD74LS247 | Hitachi | | | Hexadecimal to 7-Segment Latch/Decoder/Driver (CMOS with bipolar output) | MC14495 | Motorola | |
| | | | | HD74LS47 | Hitachi | | | Seven High Current NPN Transistors, Common Collector | CA3082 | † Harris | 145 |
| | | | | MC4039 | Motorola | | | Seven NPN Transistors, Common Emitter | CA3081 | † Harris | |
| | | | | SN74LS247 | Motorola | | | Seven Segment LED (serial interface) | | | |
| | | | | SN74LS47 | Motorola | | | MC14489 | Motorola | | |
| | | | | DM5447A | † National | | | | | | |
| | | | | DM7446A | National | | | | | | |
| | | | | DM7447A | National | | | | | | |
| | | | | 54LS247 | † National | | | | | | |
| | | | | 54LS347 | † National | | | | | | |
| | | | | 54LS447 | † National | | | | | | |
| | | | | 54LS47 | † National | | | | | | |
| | | | | 74LS247 | National | | | | | | |
| | | | | 74LS347 | National | | | | | | |
| | | | | 74LS447 | National | | | | | | |
| | | | | 74LS47 | National | | | | | | |
| | | | | 7447 | National | | | | | | |
| | | | | 9317BC | National | | | | | | |
| | | | | 7446 | Rochester | | | | | | |
| | | | | 7447 | Rochester | | | | | | |
| | | | | 9317 | Rochester | | | | | | |
| | | | | 383A/C | TeledyneC | | | | | | |
| | | | | SN54LS247 | † TI | | | | | | |
| | | | | SN54LS47 | † TI | | 100 | | | | |
| | | | | SN54246 | † TI | | | | | | |
| | | | | SN54247 | † TI | | | | | | |

† Mil Temp Range (-55° to 125°C)

‡ High Rad Resistance

*Typical Value

† Behavioral Model Available

‡ Low Voltage Devices

Bold face indicates additional data is provided on the page noted.

INTERFACE—Display Drivers (Cont'd)

| Function | Device | Source | Line | Function | Device | Source | Line | Function | Device | Source | Line |
|--|--|---------------------------------------|------|---|--|---|------|--|---|---|------|
| 2-Digit LED Driver | M5481 M5482 | SGS-Thomson SGS-Thomson | | 4-Segment MOS to LED Anode Driver | DS55493 DS75491 DS75493 | † National National National | | 8-Character, 14/16 Segment LED Display Driver | ICM7243 ICM7243AI ICM7243BI | Harris Harris Harris | |
| 3-1/2-Digit LED Driver | M5480 | SGS-Thomson | | 5-Character, 18-Segment Triplexed LCD Decoder/Driver | ICM7234 MAX7234A MAX7234B | Maxim Maxim Maxim | 50 | 8-Digit Gas Discharge Display Anode Driver | DI510B DI512B DI803A DI804A DI805A | Dionics Dionics Dionics Dionics Dionics | 95 |
| 4-Digit LCD/LED | ICM7211AI ICM7211I ICM7212AMI | Harris Harris Harris | 5 | 5-Line Plasma Display Axis Driver | DI5140 DI5180 DI5240 DI5280 | Dionics Dionics Dionics Dionics | | 8-Digit MOS to LED Cathode Driver | DS8863 DS8963 | National National | 100 |
| 4/5-Digit Vacuum Fluorescent (serial data input) | MM5450 MM5451 | National National | | 5-Step, Linear, LED Driver | KA2286 KA2287 | Samsung Samsung | 55 | 8-Digit/Segment Vacuum Fluorescent | UDN6118A UDN6128A UDS6118 DI513B DI514B XR6118 XR6128 NE594 SA594 | Allegro Micro Allegro Micro † Allegro Micro Dionics Dionics Exar Exar Philips Philips | 105 |
| 4-1/2-Digit Counter/Decoder/Driver | ICM7224 ICM7224C ICM7225 ICM7225C | Maxim Maxim Maxim Maxim | 10 | 5-Step, Logarithmic, LED Driver | KA2284 KA2285 | Samsung Samsung | | 8-Digit, 7-Segment Triplexed LCD Decoder/Driver | ICM7231B ICM7231BF1 ICM7232AF1 ICM7232CR1 ICM7231 MAX7231A MAX7231B MAX7231C | Harris Harris Harris Harris Maxim Maxim Maxim Maxim | 110 |
| 4Bit Multiplexed LCD Driver (4x7) | HC7211-1 HC7211-2 | Hughes Hughes | | 5-Step, Logarithmic, LED Driver, Dual | KA2281 KA2283 | Samsung Samsung | 60 | 8-Output Digit-Scan Counter/Decoder for Cold-Cathode Counter Tubes | MSL9510R MSL9511R | OKI OKI | 120 |
| 4-Channel Incandescent Lamp Driver | CLD4 | TeledyneC | 15 | 5-Step Logarithmic Dual LED Driver | TA7666 TA7667 | Toshiba Toshiba | | 8-Segment Gas Discharge Display Cathode Driver | UDN7180A DI210 DI230A DI240A DI300 DI302 DS7889 DS8889 | Allegro Micro Dionics Dionics Dionics Dionics Dionics † National National | 125 |
| 4-Channel Plasma | XR2284 | Exar | | 5x2 LED Driver | IR2E27 | Sharp | | 8-Segment MOS to LED Anode Driver | DS8867 | National | 130 |
| 4-Character, 18-segment triplexed LCD Decoder/Driver. | MIC7233 | Micrel | | 6-Digit Gas Discharge Display Anode Driver | DI505B DI507B DI603A DI604A DI605A | Dionics Dionics Dionics Dionics Dionics | 65 | 9-Digit MOS to LED Cathode Driver | DS8973 | National | |
| 4-Character, 18-Segment Triplexed LCD Decoder/Driver | ICM7233 MAX7233A MAX7233B | Maxim Maxim Maxim | 20 | 6-Digit MOS to LED Cathode Driver | DS55494 DS75492 DS75494 DS8870 | † National National National National | 70 | 9-Digit MOS to LED Cathode Driver with Shift Register Decoding | DS8874 | National | |
| 4-Digit Gas Discharge Display Anode Driver | DI500B DI502B | Dionics Dionics | | 6-Digit/Segment Vacuum Fluorescent | UDN6116A DI508B DI509B | Allegro Micro Dionics Dionics | 75 | 10-Bit Serial In/Parallel Out Fluorescent (for μP systems) | TL4810B UCN4810A | TI TI | |
| 4-Digit LCD Driver | ICM7211AM ICM7211M | Maxim Maxim | | 6-Digit BCD (stores segment and address data, drives 7-8 segment digits) | MM74C912 | National | | 10-Channel Serial-Input Latched Display Driver | HV6810 | Supertex | |
| 4-Digit LED Driver, Multiplexed BCD or Binary to 7-Segment Decoder/Driver | ICM7212 ICM7212A | Maxim Maxim | 25 | 6-Digit Hex (stores segment and address data, drives 7 segments) | MM74C917 | National | | 10-Digit, 7-Segment Triplexed LCD Decoder/Driver | ICM7232A ICM7232 MAX7232A MAX7232B MAX7232C | Harris Maxim Maxim Maxim Maxim | 135 |
| 4-Digit LED Driver, BCD or Binary to 7-Segment Decoder/Driver, Data and Digit Select Code Latches for μP Interface | ICM7212A ICM7212AM ICM7212M TC7212A | Harris Maxim Maxim TeledyneC | 30 | 6-Digit, 7-Segment LCD Driver with Decimal Points, or Three 16-Segment Characters. 48-Stage Shift Register, 48-Bit Data Latch and 48-Segment Driver | MSM5219 | OKI | | 12-Line Vacuum Fluorescent | UCN5811A | Allegro Micro | 140 |
| 4-Digit Liquid Crystal, Multiplexed BCD to LCD Decoder/Driver, AC Drive | ICM7211 ICM7211A ICM7211 ICM7211A | Harris Harris Maxim Maxim | | 7-Digit MOS to Gas Discharge | XR2272 | Exar | 80 | 12-Line Vacuum Fluorescent | SN75514 | TI | |
| 4-Digit/Segment Vacuum Fluorescent | DI503B DI504B | Dionics Dionics | 35 | 7-Digit/Segment MOS to Vacuum Fluorescent | XR2271 | Exar | | 12-Line Vacuum Fluorescent Display Driver | SN65512B SN75512B | TI TI | |
| 4-Digit Select-Microprocessor Interface (4x7) | HC7211-3 HC7211-4 | Hughes Hughes | | 7-Line Dot Matrix or Segmented | SN75581 | TI | | 12-Segment, LCD Driver | IR2429 | Sharp | |
| 4-Digit (stores segment and address data, drives 7-8 segment digits) | MM74C911 | National | | 7-Segment Decoder/Driver with Serial Interface | MC14499 | Motorola | | 12x2 LED Driver | IR2E28 | Sharp | |
| 4-Digit/8-Segment Vacuum Fluorescent | COP470 | National | 40 | 7-Segment Gas Discharge Display Cathode Driver, with BCD Decoder | DS7880 DS8880 DS8884A | † National National National | 85 | 8-Channel Plasma | XR2288 | Exar | |
| 4-Digit, 17-Segment Alpha-Numeric with Memory, Decoder and LED Drivers | MM74C956 NSM4507 | National National | | 7-Segment, LCD Driver | IR2E34 | Sharp | | | | | |
| 4-Digit, 7-Segment LCD Decoder/Driver | TC7211A | TeledyneC | | 7-Segment to BCD Converter/Driver | MM54C915 MM74C915 | † National National | 90 | | | | |
| 4-Segment Liquid Crystal | CD4054B TC4054B | Harris Toshiba (3745) | 45 | 7x2 LED Driver | IR2E28 | Sharp | | | | | |

Temp Range (-55° to 125°C)

‡ High Rad Resistance

* Typical Value

† Behavioral Model Available

‡ Low Voltage Devices

MASTER 1993 Bold face indicates additional data is provided on the page noted.

IC MASTER

INTERFACE—Display Drivers (Cont'd)

| Function | Device | Source | Line | Function | Device | Source | Line |
|--|----------|-----------|------|--|---------|----------|------|
| 16-Line Vacuum Fluorescent | DS8881 | National | | 64-Channel Serial to Parallel Converter with Ruggedized High Voltage CMOS Outputs (for AC Electroluminescent Displays), 60V (Cont'd) | HV04H06 | Supertex | |
| 16-Segment LED Display Drivers | MM5484 | National | | | HV04H08 | Supertex | 50 |
| 20-Digit Alphanumeric or Dot Matrix VF Driver | MM58242 | National | | | HV0406 | Supertex | |
| 20-Line Vacuum Fluorescent Display Driver | TL5812 | TI | | | HV0408 | Supertex | |
| 20-Segment Vacuum Fluorescent Display Driver | SED2020F | S-MOS | 5 | | HV0522 | Supertex | |
| 32-Bit LCD Driver | S4521 | Gould AMI | | | HV0530 | Supertex | 55 |
| 32-Channel AC Plasma Display Driver | HV500 | Supertex | | | HV06H06 | Supertex | |
| | HV501 | Supertex | | | HV06H08 | Supertex | |
| 32-Channel Liquid Crystal Display Driver, ± 40V | HV6008 | Supertex | | | HV0606 | Supertex | |
| | | | | | HV0608 | Supertex | |
| 32-Channel Serial to Parallel Converter with P-Channel Open Drain Outputs (for AC Electroluminescent Displays) | HV4122 | Supertex | 10 | 64-Segment LCD Duplex | PCF2111 | Philips | |
| | HV4222 | Supertex | | | | | |
| | HV4522 | Supertex | | | | | |
| | HV4530 | Supertex | | | | | |
| | HV4622 | Supertex | | | | | |
| | HV4630 | Supertex | 15 | | | | |
| | HV5122 | Supertex | | | | | |
| | HV5222 | Supertex | | | | | |
| | HV5306 | Supertex | | | | | |
| | HV5406 | Supertex | | | | | |
| | HV5408 | Supertex | 20 | | | | |
| | HV5522 | Supertex | | | | | |
| | HV5530 | Supertex | | | | | |
| | HV5622 | Supertex | | | | | |
| | HV5630 | Supertex | | | | | |
| | HV5708 | Supertex | 25 | | | | |
| | HV5808 | Supertex | | | | | |
| 32-Channel Serial to Parallel Converters with High Voltage Push-Pull Outputs (for AC Electroluminescent Displays), 80V | HV5308 | Supertex | | | | | |
| 32-Digit Alphanumeric or Dot Matrix VF Driver | MM58241 | National | | | | | |
| | MM58248 | National | | | | | |
| | MM58341 | National | 30 | | | | |
| | MM58348 | National | | | | | |
| 32-Line AC Plasma Display Axis Driver | SN55500E | † TI | | | | | |
| | SN65501E | TI | | | | | |
| | SN75501E | TI | | | | | |
| 32-Line Electroluminescent Display Column Drivers | SN75567 | TI | 35 | | | | |
| | SN75568 | TI | | | | | |
| 32-Line Vacuum Fluorescent | SN75518 | TI | | | | | |
| 32-Row LCD Dot-Matrix Driver | MSM5238 | OKI | | | | | |
| 32-Segment LCD | MM5452 | National | | | | | |
| | MM5453 | National | 40 | | | | |
| 32-Segment LCD Controller/Driver | μPD7255 | NEC | | | | | |
| 32-Segment LCD Driver | AY0438I | Microchip | | | | | |
| | MM5483 | National | | | | | |
| | PCF2112 | Philips | | | | | |
| 32-Segment Vacuum Fluorescent Display Driver | SED2032F | S-MOS | 45 | | | | |
| 40-Segment LCD Duplex | PCF2100 | Philips | | | | | |
| 64-Channel Serial to Parallel Converter with Open Drain Outputs (for AC electroluminescent displays), 220V | HV0322 | Supertex | | | | | |
| | HV0330 | Supertex | | | | | |

(Continued)

† Mil Temp Range (-55° to 125°C)

‡ High Rad Resistance

*Typical Value

*Behavioral Model Available

‡ Low Voltage Devices

Bold face indicates additional data is provided on the page noted.