

# Neurowire-Compatible Devices

8/29/94

*This is a small sampling of the available products from various manufacturers, and as such, not exhaustive. For additional information and latest product updates, refer to the respective manufacturers' data books. This list will be updated on an ongoing basis. If you know of any devices that should be added to this list please send a message on LonLink to 'reza'.*

## Microcontrollers

4-bit	COP400 family
8-bit	Many varieties of MC68HC05's, MC68HC08 family, MC68HC11 family, MC68HC16 family, PIC16C64, PIC16C74, COP800 family
16-bit	MC68302, MC68331/2/3/4, National HPC family
DSP	DSP56001, DSP56116, DSP56156

## Input Ports

74HC165	8-bit serial or parallel-input, serial-output shift register
74HC589	8-bit serial or latched parallel-input, serial-output shift register with 3-state output
74HC597	8-bit serial or latched parallel-input, serial-output shift register with reset

## Output Ports

74HC595	8-bit serial-input, serial or parallel-output shift register with 3-state outputs
MC33298	8-output, high-current, low side switch
CD4094	8-bit serial-input, 3-state output
UCN58xx	Family of 8, 10, 12, and 32-bit drivers, source or sink output, latched or non-latched, high current and voltage outputs available

## Memories

NMC93C06	16x16 CMOS EEPROM
NMC93C566	256x16 CMOS EEPROM, with write protect
MCM2814	256-byte serial EEPROM memory
X2444	16x16 serial NOVRAM, CMOS versions available
X24C45	16x16 serial NOVRAM with AutoStore, CMOS
93AA46/56/66	1/2/4K bits (Microchip)

## Display Drivers

MC145000/5001	12 FP + 4 BP multiplexed master/cascadable 12 FP slave LCD driver
MC145453	33 segment non-multiplexed LCD driver
MC14489	Multi-character LED display/lamp driver
MM5450	35-output LED display driver
MM5483	31-segment LCD display driver
MM58201	8-backplane and 24 segment multiplexed LCD driver
MM58241	32 output high-voltage display driver

## A/D Converters

ADC0831/2/4/8	8-bit, 1/2/4/8-channel
LTC1091/92/93/94	10-bit, 1/2/6/8 channel
LTC1291/92/93/94	12-bit, 1/2/6/8 channel

LTC1095	10-bit, 6-channel, on-board reference
LTC1295	12-bit, 6-channel, on-board reference
MAX111	14-bit, 1-channel, low power with shut down
MAX121	14-bit, 1-channel, high speed
MAX170	12-bit, 1-channel
MAX190	12-bit, 1-channel, low power, on-board reference
MC145040/41	8-bit, 11-channel, external or internal conversion clock
MC145050/51	10-bit, 11-channel, external or internal conversion clock
MC145053	10-bit, 5-channel, internal conversion clock

\* Refer to the *Analog to Digital Conversion with the Neuron Chip* engineering bulletin (005-0019-01) for more information

### **D/A Converters**

MAX529	8-bit, 8-channel, single supply
MAX539	12-bit, 1-channel, low power
MAX543	12-bit, 1-channel

### **Real-Time Clock/Calendar**

MC68HC68T1	Time-of-day clock/calander + 32 bytes of scratchpad RAM
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### **Audio/Radio**

DS8906/7/8	AM/FM digital PLL synthesizers
DS8911	AM/FM/TV sound up-conversion frequency synthesizer
LMC1992/93	Stereo volume/ tone/fade
LMC835	7-band graphic equalizer
MC145161, '67, '69	Cordless phone PLL frequency synthesizers
MC145149, '55-2, '56-2, '57-2, '58-2, '59-2, '70, '91, '92	General purpose PLL frequency synthesizers, various frequency ranges for radio, TV, CATV, scanners, PC's, etc.
MC33218	Serial control of volume, mute, range selection, and operating mode.
X9241	Quad EEPEOM-based potentiometer

### **Telecommunication**

TP3400	Digital adapter for subscriber loops (DASL)
TP3410	Echo canceller
TP3420	S interface device

Manufacturer prefix key:

ADC=National, CD=National, COP= National, DS=National, LTC=Linear Technology, LMC=National, MAX=Maxim, MC=Motorola, MM=National, PIC=Microchip, TP=National, UCN=Allegro Microsystems, X=Xicor