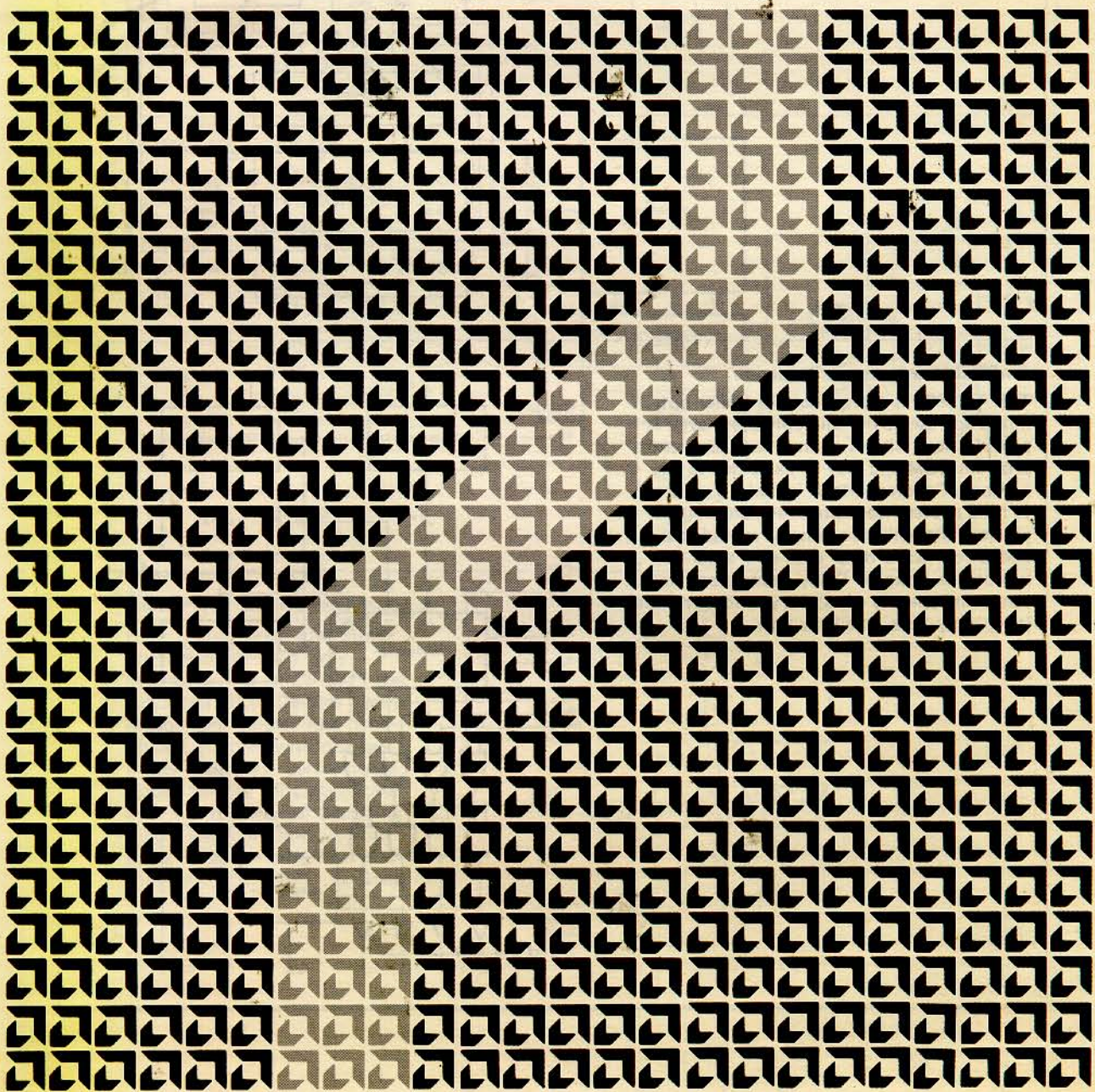


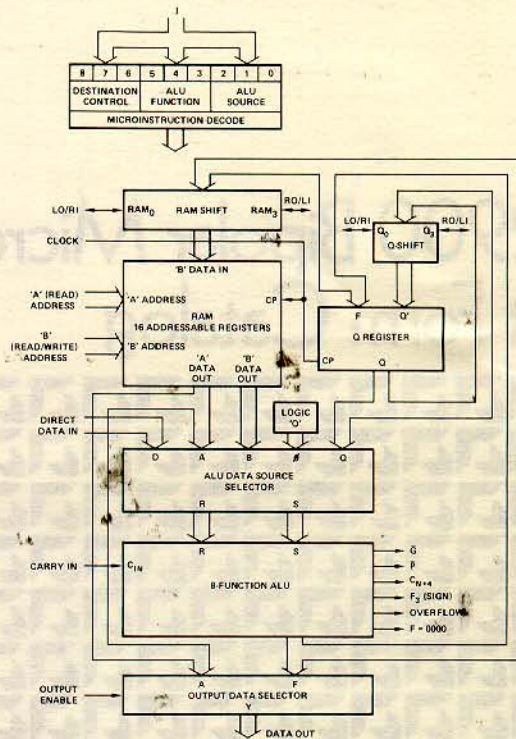


# Am2900 Bipolar Microprocessor Family Short Form Catalog



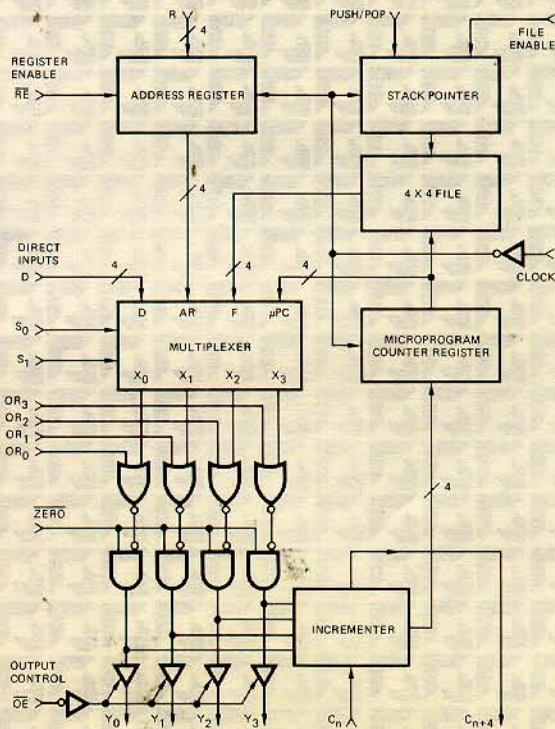
### Am2901 Four-Bit Microprocessor Slice

The Am2901 is an expandable four-bit CPU slice, containing an eight-function ALU, sixteen working registers in a two-address architecture, an auxiliary register, and shifting logic. Register-to-register, read/modify/write time is 105ns worst case over the commercial operating range. Available now.



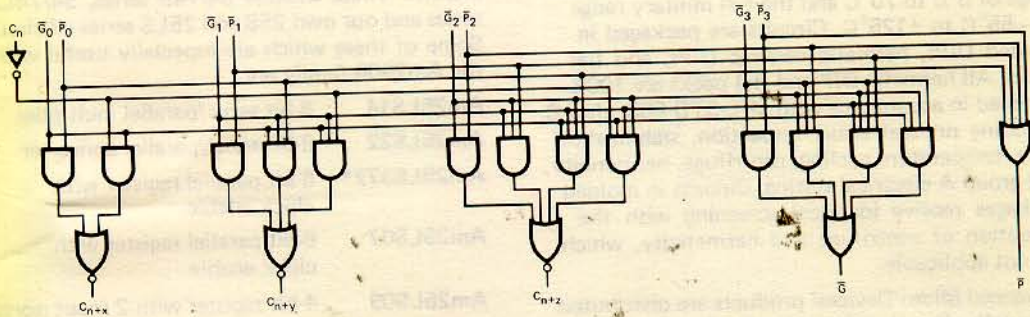
### Am2909 Microprogram Sequencer

The Am2909 is a sequence controller optimized for use at the microprogram level. It provides four bits of address for the microprogram ROM and may be expanded to any number of address bits. It includes a register to hold a reference address, a microprogram counter, the ability to jump to any address, and a four-word deep push-pop stack for subroutine linkage. Delay from clock to output is typically 40ns; carry-in to carry-out is typically 10ns. Available now.



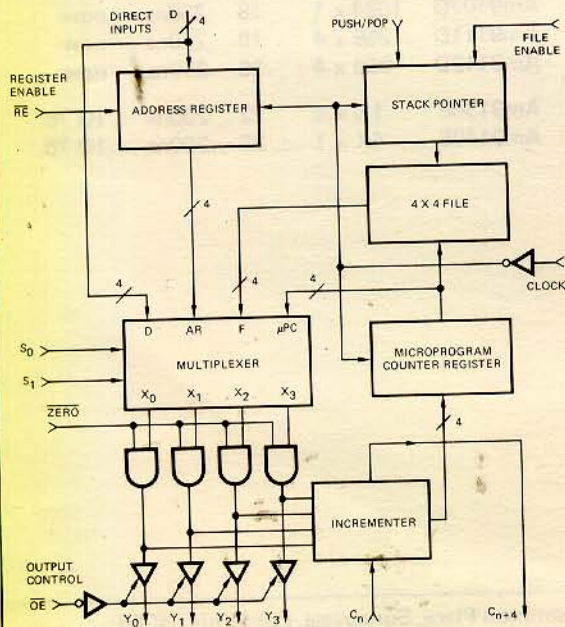
### Am2902 Carry Lookahead Chip

Logically like the Am74182, this device generates carries for three Am2901's from the generate and propagate outputs. The Am2902 produces carries in 8ns from the G and P inputs. Available now.



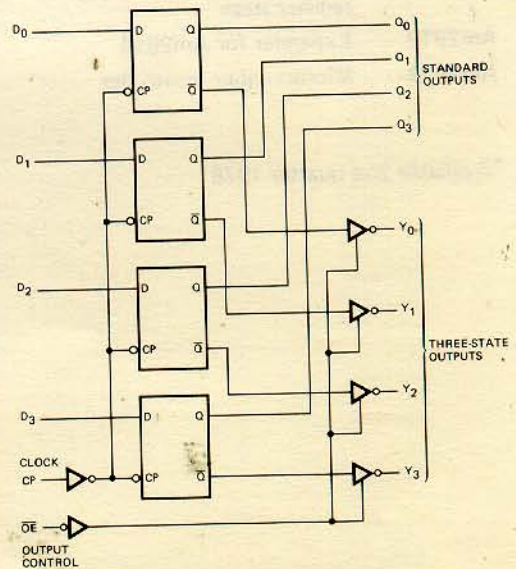
### Am2911 Minimicroprogram Sequencer

The Am2911 contains nearly all the power of the Am2909 in a space and cost saving 20-pin package. Delay from clock to output is typically 40ns. Available March 1976.



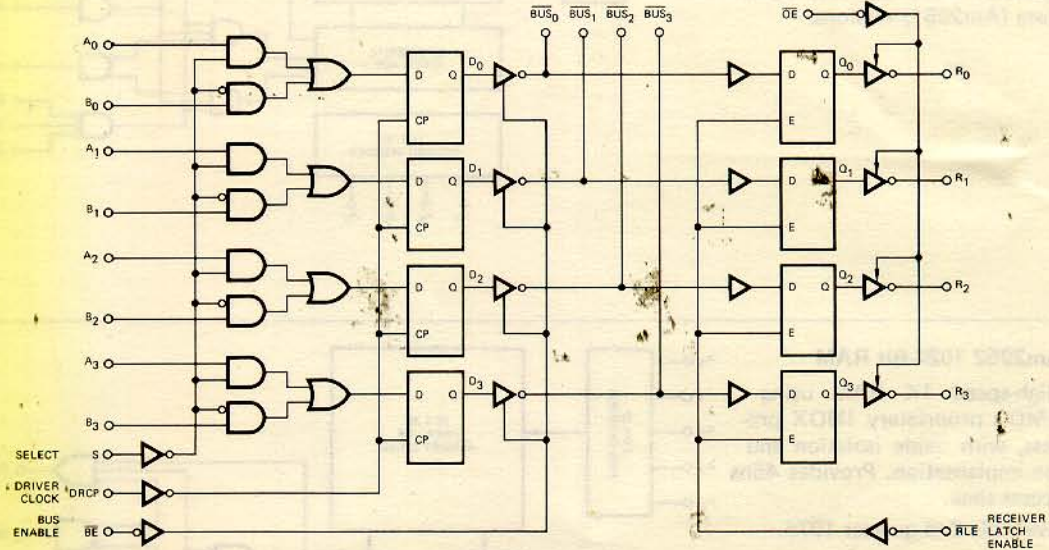
### Am2918 One-by-Two Port Register

A four-bit register, one set of inputs; two sets of outputs – three-state and regular Schottky TTL. Ideal for status registers, data bus interfaces. Available now.



### Am2905 and Am2915 LSI Bus Transceivers

The Am2905 is a four-bit bus transceiver designed to drive a 100mA load on an open collector bus. The Am2915 is an identical circuit, designed to drive a three-state bus. They include a two-port input register and a latch on the receiver outputs. The latch is three-state. Delay from clock to bus is typically 21ns; from bus to receiver output is typically 18ns. Am2905 available now. Am2915 available 2nd quarter 1976.

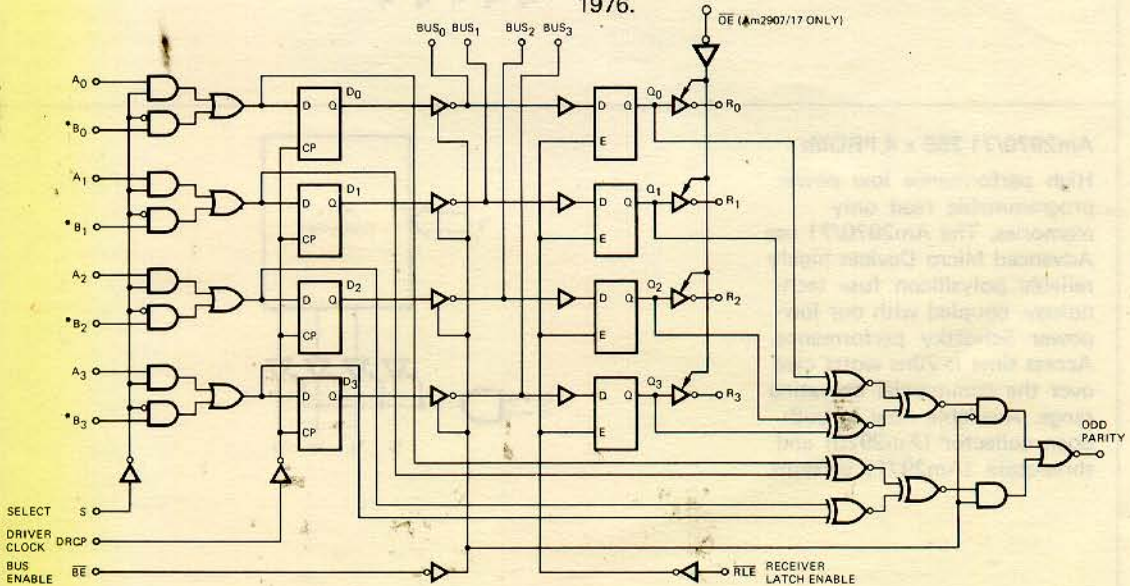


### Am2906 and Am2916 LSI Bus Transceivers

Like the Am2905 and Am2915, but includes a parity generator/checker on chip. Am2906 available now. Am2916 available 2nd quarter 1976.

### Am2907 and Am2917 LSI Bus Transceivers

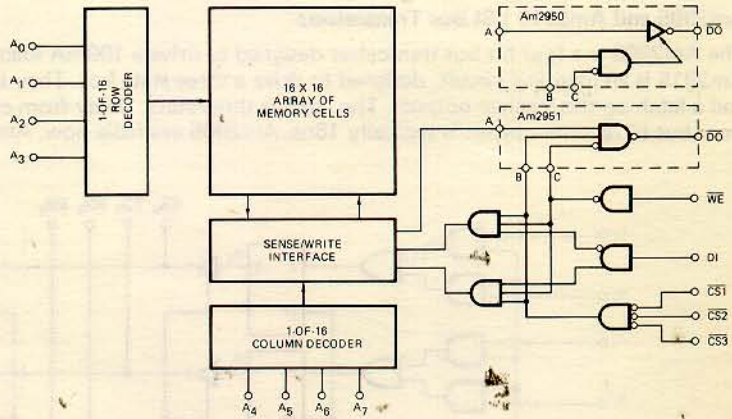
Like the Am2906 and Am2916, but has only one data input port on the driver register. Fits in space-saving, 20-pin package. Am2907 available now. Am2917 available 2nd quarter 1976.



\*Am2906/2916 Only.

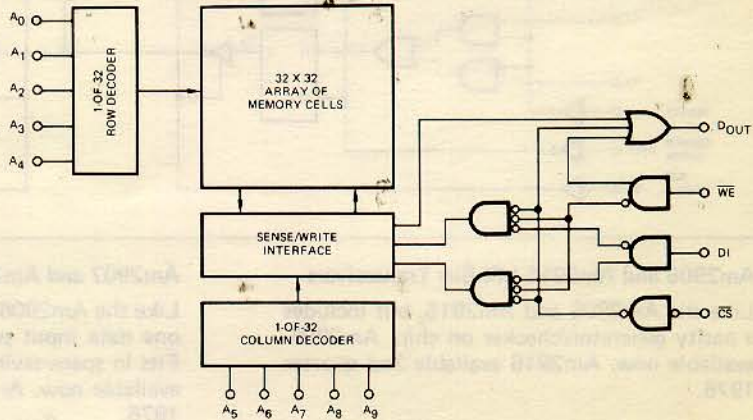
### Am2950/51 256-bit RAM's

High-performance, low-power RAM's in the industry-standard pin-out. Provides 45ns access time max. at just 55mA I<sub>CC</sub> . . . . Available now in both open collector (Am2950) and three-state (Am2951) versions.



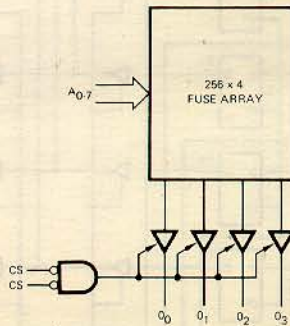
### Am2952 1024-Bit RAM

High-speed 1K RAM using AMD's proprietary IMOX process, with oxide isolation and ion-implantation. Provides 45ns access time. Available 2nd quarter 1976.



### Am2970/71 256 x 4 PROMs

High performance low power programmable read only memories. The Am2970/71 use Advanced Micro Devices highly reliable polysilicon fuse technology, coupled with our low-power Schottky performance. Access time is 70ns worst case over the commercial operating range. Available now in both open collector (Am2970) and three-state (Am2971) versions.



## General Information

Advanced Micro Devices is the world leader in low power Schottky LSI technology, as represented by the Am2900 Family. All these products are available for operation over both the commercial range of 0°C to 70°C and the full military range of -55°C to +125°C. Circuits are packaged in molded DIPs, hermetic ceramic DIPs, and flat packs. All hermetic DIP and flat packs are 100% screened in accordance with MIL-STD-883, class C, including pre-seal visual inspection, stabilization bake, temperature cycling, centrifuge, hermeticity, and group A electrical testing. Circuits in molded packages receive identical screening with the exception of centrifuge and hermeticity, which are not applicable.

Advanced Micro Devices' products are distributed nationally by Hamilton/Avnet, Cramer, and Schweber Electronics.

## Future Products

Many new products are planned for addition to the Am2900 family. Those listed below will be introduced in 1976.

- Am2914\*** 8-level vectored priority interrupt circuit with masking and status register
- Am2980/81** Field Programmable Logic Array with 16 inputs, 8 outputs, and 48 product terms
- Am2954\*** 16 word by 4-bit two address register stack
- Am2919** Expander for Am2914
- Am2929** Microprogram controller

\* Available 2nd quarter 1976

## Other Products of Interest

### Schottky and Low-Power Schottky TTL

Advanced Micro Devices supplies a broad line of complex Schottky and Low-Power Schottky circuits. These include 54/74S series, 54/74LS series and our own 25S and 25LS series of circuits. Some of these which are especially useful with the Am2900 family are:

- Am25LS14** 8-bit serial/parallel multiplier
- Am25LS22** 8-bit serial/parallel converter
- Am25LS377\*** 8-bit parallel register with clock enable
- Am25LS07** 6-bit parallel register with clock enable
- Am25LS09** 4-bit register with 2 input ports

### High Performance N-Channel Static RAM's

AMD is the price/performance leader in N-channel static RAM's. Some of these parts are especially attractive for use in 2900-based microprocessor systems. The parts listed below are only those with access times of 250ns or less. (Slower devices may be purchased with cost savings.)

P/N	Organization	Pins	Access	
			Time	Available
Am9101D	256 x 4	22	250ns	now
Am9102D	1024 x 1	16	250ns	now
Am9111D	256 x 4	18	250ns	now
Am9112D	256 x 4	16	250ns	now
Am9130E	1K x 4	22	200ns	1Q 76
Am9140E	4K x 1	22	200ns	1Q 76