

## DEVICE SELECTOR M107

## M SERIES

The M107 is a device selector which, by the use of extended decoding of the BMB lines 9 through 11, will provide seven discrete IOT pulses. Five additional IOT pulse outputs are provided to allow the user to reduce software requirements by the combining of IOT codes. The IOT instruction and the IOP times at which the various IOT pulses occur at the module pins are outlined in the following chart:

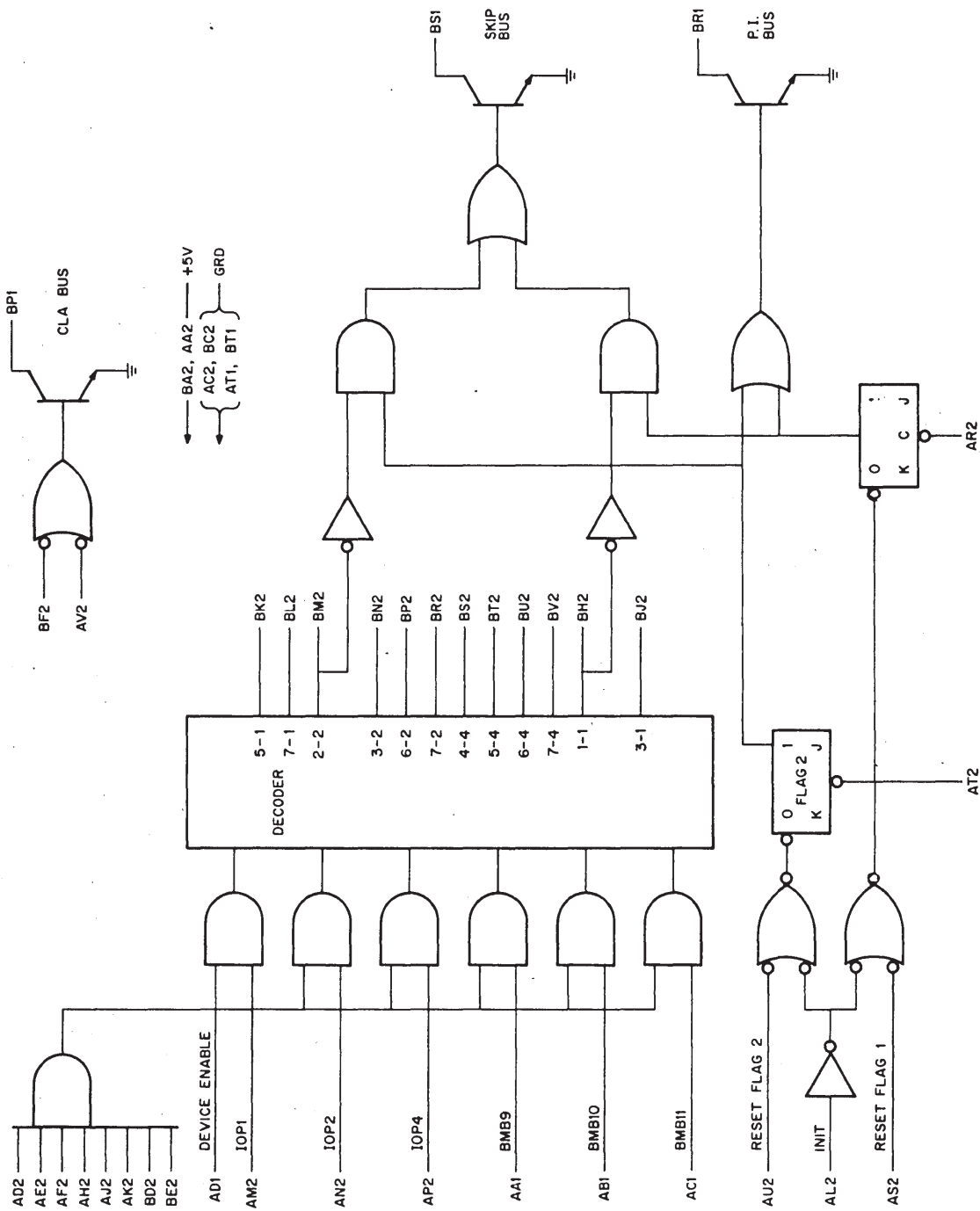
Module Pin	IOT	AT IOP TIME		
		1	2	4
BH2	1 - 1	X		
BM2	2 - 2		X	
BJ2	3 - 1	X		
BN2	3 - 2		X	
BS2	4 - 4			X
BK2	5 - 1	X		
BT2	5 - 4			X
BP2	6 - 2		X	
BU2	6 - 4			X
BL2	7 - 1	X		
BR2	7 - 2		X	
BV2	7 - 4			X

Example: If an IOP-7 is issued, IOT pulses will exist only at output pins BL2 (7-1), BR2 (7-2) and BV2 (7-4). IOT pulses will not exist at any other output pin.

The M107 also contains two flag flip-flops which may be directly cleared or set. The outputs of the flag flip-flops are connected to the skip and program interrupt lines. Interrogation of the flags is accomplished by IOT 1 - 1 for flag 1 and IOT 2 - 2 for flag 2.

The M107 also provides two inputs to accomplish the "clear the accumulator" function.

**INPUTS:** Pins — AD2, AE2, AF2, AH2,  
AJ2, AK2, AA1, AB1,  
AC1, AL2, AV2, BF2,  
Present one TTL load



**INPUTS:** Pins — BD2, BE2, AM2, AN2,  
AP2, AU2, AS2  
Present 1.25 TTL load.

Pins — AR2, AT2 resent 2 TTL loads.

**Outputs:** Option Select Pin AD1 can drive 13 TTL loads. Bus driver outputs pins BP1, BS1, and BR1 are open collector NPN transistors and can sink 30 ma. at ground. The maximum voltage applied to these outputs must not exceed +20 volts and each output is diode protected against negative undershoot in excess of -0.9 volts.

All other outputs will drive up to 35 TTL loads.

**Power:** +5v at 245 ma. (maximum).