

Bus Driver

The MC10128 is designed to provide outputs which are compatible with IBM-type bus levels; or, if desired, it will drive TTL type loads and/or provide TTL three-state outputs. The inputs accept MECL 10,000 levels. The MC10128 output levels can be accepted by the MC10129 Bus Receiver.

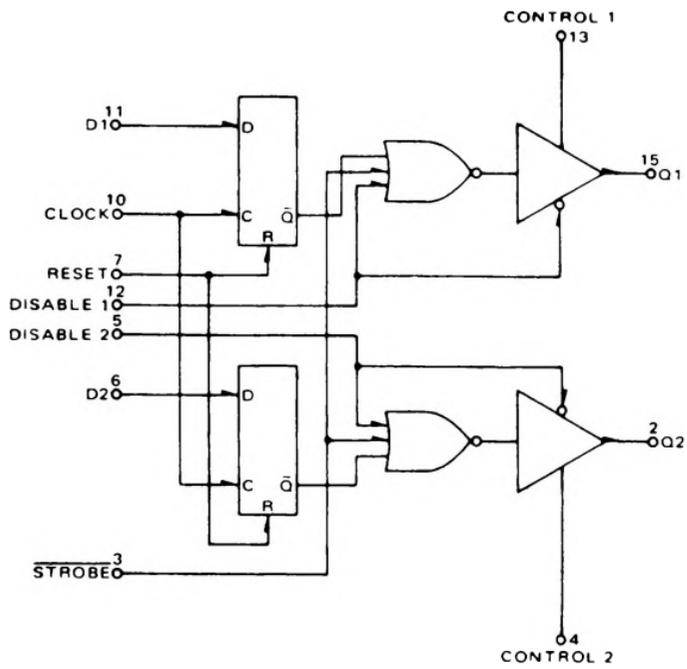
The operating mode IBM or TTL is selected by tying the external control pins to ground or leaving them open. Leaving a control pin open selects the TTL mode, and tying a control pin to ground selects the IBM mode.

The TTL mode will drive a 25-ohm load, terminated to +1.5 Vdc or a 50-ohm load, terminated to ground. The device has totem-pole type outputs, but it also has a disable input for three-state logic operation

when the circuit is used in the TTL mode. When in the high state the disable input causes the output to exhibit a high impedance state when it would normally be a positive logic "1" state. When the strobe is in the high state it inhibits the output data to the low state.

Latches are provided on each data input for temporary storage. When the clock input is in the low logic state, information present at the data inputs D1 and D2 will be fed directly to the latch output. When the clock goes high, the input data is latched. The outputs are gated to allow full bus driving and strobing capability.

The MC10128 is useful in interfacing and bus applications in central processors, mini-computers, and peripheral equipment.



VCC = Pin 14
 Gnd 1 = Pin 16
 Gnd 2 = Pin 1
 Gnd 3 = Pin 9
 VEE = Pin 8

$P_D = 700 \text{ mW pkg/typ (No Load)}$
 $t_{pd} = 12 \text{ ns typ}$

MC10128

DRIVERS-RECEIVERS