intel

4201A
CLOCK GENERATOR
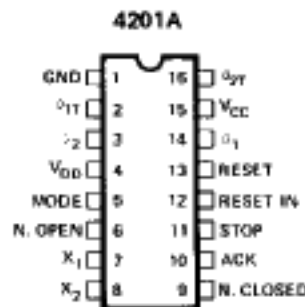
- **Complete Clock Requirements for MCS-40™ Systems**
- **Crystal Controlled Oscillator (XTAL External)**
- **MOS and TTL Level Clock Outputs**
- **Provides MCS-40 Reset Function Signal**
- **Standard Operating Temperature Range of 0° to 70°C**
- **Also Available with -40° to +85°C Operating Range**

The 4201A is a CMOS integrated circuit designed to fill the clock requirements of the MCS-40 microcomputer family. The 4201A contains a crystal controlled oscillator (XTAL external), clock generation circuitry, and both MOS and TTL level clock driver circuits.

The 4201A also performs the power on reset function required by MCS-40 components and provides the logic necessary to implement the single-step function of the 4040 central processor unit.

PIN CONFIGURATION

4201A

GND	1	16	ϕ_{2T}
ϕ_{1T}	2	15	V_{CC}
ϕ_2	3	14	ϕ_1
V_{DD}	4	13	RESET
MODE	5	12	RESET IN
N. OPEN	6	11	STOP
X_1	7	10	ACK
X_2	8	9	N. CLOSED

BLOCK DIAGRAM