

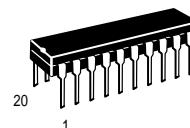
MC145146-2

4-Bit Data Bus Input PLL Frequency Synthesizer Interfaces with Dual-Modulus Prescalers

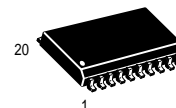
The MC145146-2 is programmed by a 4-bit input, with strobe and address lines. The device features consist of a reference oscillator, 12-bit programmable reference divider, digital phase detector, 10-bit programmable divide-by-N counter, 7-bit divide-by-A counter, and the necessary latch circuitry for accepting the 4-bit input data.

- Operating Temperature Range: -40 to 85°C
- Low Power Consumption Through the Use of CMOS Technology
- 3.0 to 9.0 V Supply Range
- Programmable Reference Divider for Values Between 3 and 4095
- Dual-Modulus 4-Bit Data Bus Programming
- $\div N$ Range = 3 to 1023, $\div A$ Range = 0 to 127
- "Linearized" Digital Phase Detector Enhances Transfer Function Linearity
- Two Error Signal Options:
Single-Ended (Three-State)
Double-Ended

**NOT RECOMMENDED FOR NEW DESIGNS;
PRODUCT TO BE PHASED OUT.**
Closest equivalents are the MC145152-2, MC145170-1,
MC14519X series, and MC14520X series.



P SUFFIX
PLASTIC DIP
CASE 738



DW SUFFIX
SOG PACKAGE
CASE 751D

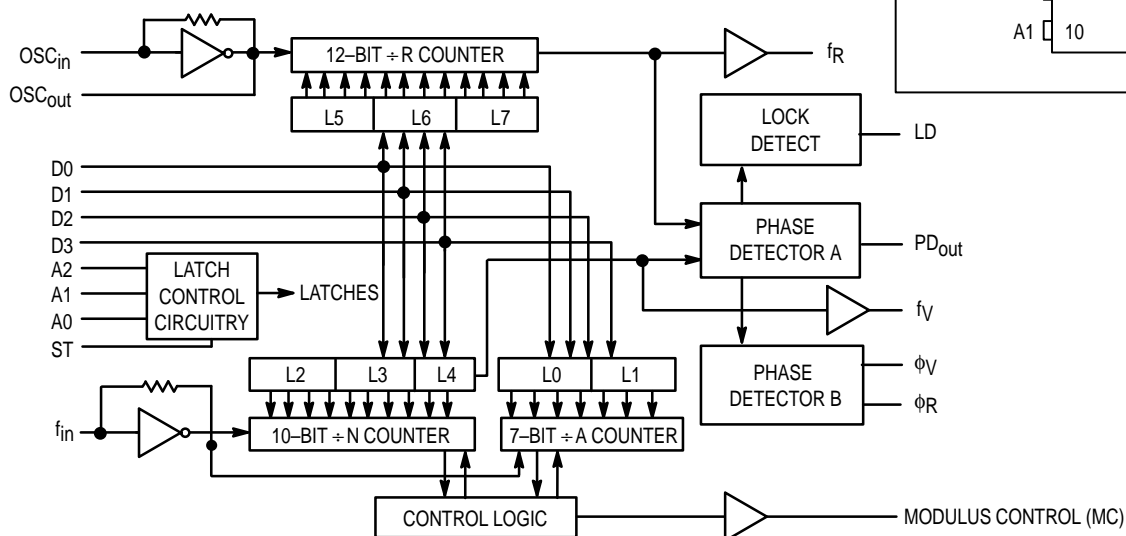
ORDERING INFORMATION


MC145146P2 Plastic DIP
MC145146DW2 SOG Package

PIN ASSIGNMENT

D1	1	20	D2
D0	2	19	D3
f_{in}	3	18	f_R
VSS	4	17	ϕ_R
PD _{out}	5	16	ϕ_V
VDD	6	15	f_V
OSC _{in}	7	14	MC
OSC _{out}	8	13	LD
A0	9	12	ST
A1	10	11	A2

BLOCK DIAGRAM



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