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

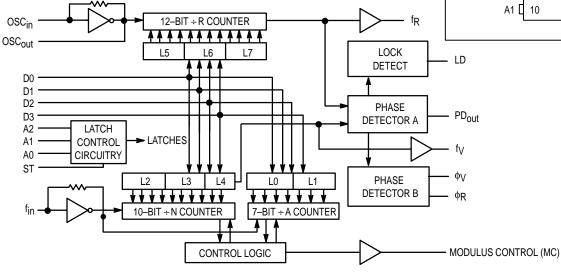
The MC145146–2 is programmed by a 4–bit input, with strobe and address lines. The device features consist of a reference oscillator, 12–bit programmable reference divider, digital phase detector, 10–bit programmable divide–by–N counter, 7–bit divide–by–A counter, and the necessary latch circuitry for 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
- ÷ N Range = 3 to 1023, ÷ A Range = 0 to 127
- "Linearized" Digital Phase Detector Enhances Transfer Function Linearity
- Two Error Signal Options:
 Single–Ended (Three–S

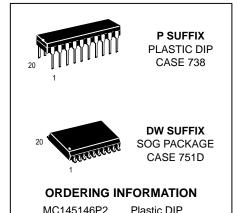
Single-Ended (Three-State) Double-Ended

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

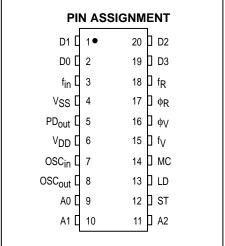
BLOCK DIAGRAM



MC145146-2



MC145146DW2 SOG Package



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MC145146-2/D