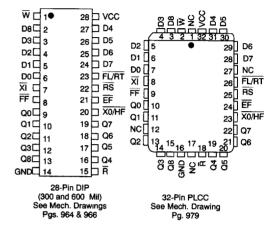


DS2011 2048 x 9 FIFO Chip

FEATURES

- · First-in, first-out memory-based architecture
- Flexible 2048 x 9 organization
- Low-power HCMOS technology
- Asychronous and simultaneous read/write
- Bidirectional applications
- · Fully expandable by word width or depth
- . Empty and full warning flags
- Half-full flag capability in single-device mode
- Retransmit capability
- High performance
- Available in 50 ns, 65 ns, 80 ns, and 120 ns access times
- Optional industrial temperature range -40°C to +85°C available, designated N

PIN ASSIGNMENT



PIN DESCRIPTION

VV	_	WHILE
R	_	READ
RS	_	RESET
FL/RT	_	First Load/Retransmit
D ₀₋₈	_	Data In
Q ₀₋₈		Data Out
Χī	_	Expansion In
XO/HF	_	Expansion Out/Half Full
FF	_	Full Flag
ĒF	-	Empty Flag
V_{CC}	_	5 Volts
GND	_	Ground
NC	_	No Connect

VA/DITE

DESCRIPTION

The DS2011 FIFO Chip implements a first-in, first-out algorithm featuring asynchronous read/write operations, full, empty, and half-full flags, and unlimited expansion capability in both word size and depth. The DS2011 is functionally and electrically equivalent to the

DS2009 512 x 9 FIFO Chip, with the exceptions listed in the notes for DC Electrical Characteristics of the DS2009 data sheet. Refer to the DS2009 data sheet for detailed device description.