

# DALLAS

SEMICONDUCTOR

## DS2011

### 2048 x 9 FIFO Chip

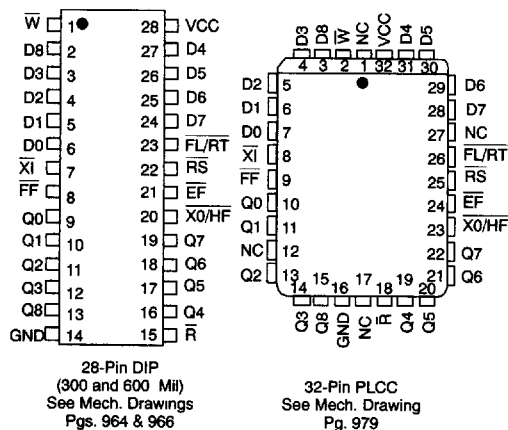
#### FEATURES

- First-in, first-out memory-based architecture
- Flexible 2048 x 9 organization
- Low-power HCMOS technology
- Asynchronous 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

#### 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

#### PIN ASSIGNMENT



#### PIN DESCRIPTION

$\bar{W}$	– WRITE
$\bar{R}$	– READ
$\bar{RS}$	– RESET
$\overline{FL/RT}$	– First Load/Retransmit
$D_{0-8}$	– Data In
$Q_{0-8}$	– Data Out
$\bar{X}i$	– Expansion In
$\overline{XO/HF}$	– Expansion Out/Half Full
$\overline{FF}$	– Full Flag
$\overline{EF}$	– Empty Flag
$V_{CC}$	– 5 Volts
$GND$	– Ground
$NC$	– No Connect

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.