

ADVANCED INFORMATION

DESCRIPTION:

The DPE128X32Y5 is a high-performance Electrically Erasable and Programmable Read Only Memory (EEPROM) module and may be organized as 128K X 32, 256K X 16 or 512K X 8.

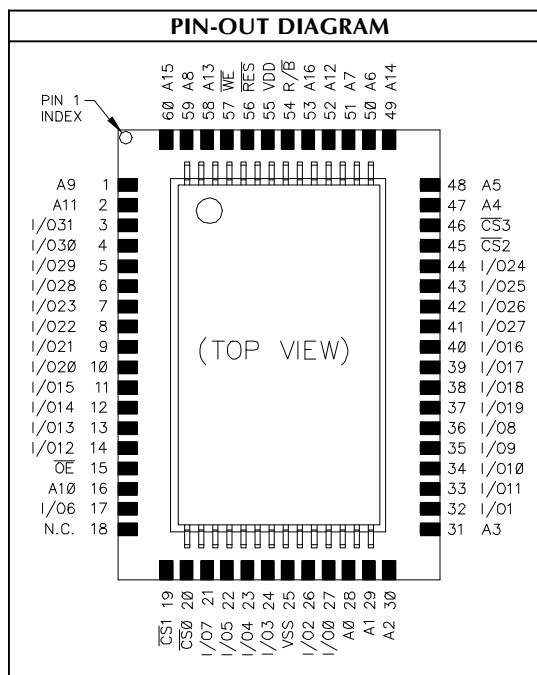
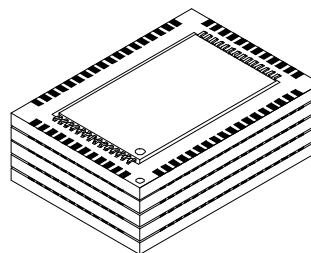
The module is built with four low-power CMOS 128K X 8 EEPROMs. The four chip enables are used for individual BWDW* selection. The DPE128X32Y5 is ideally suited for those computer systems having 16-bit or 32-bit architectures.

The DPE128X32Y5 contains a 128-BWDW page register to allow writing of up to 128 BWDWs simultaneously. During a write cycle, the address and 1 to 128 BWDWs of data are internally latched, freeing the address and data bus for other operations. Following the initiation of a write cycle, the module will automatically write the latched data using an internal control timer. The end of a write cycle can be detected by DATA Polling of the most significant data bit in each byte. Once the end of a write cycle has been detected, a new access for a read or write can begin.

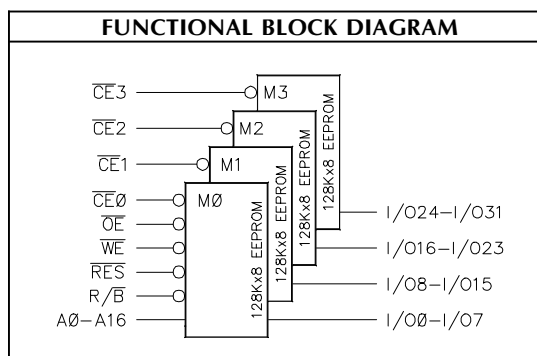
FEATURES:

- Fast Access Time: 150ns
- Organizations Available:
128Kx32, 256Kx16 or 512Kx8
- Automatic Page Write Operation
Internal Address and Data Latches
Internal Control Timer
- Fast Write Cycle Times
Page Write Cycle Time: 10ms maximum
1 to 128 BWDW* Page Write Operation
- DATA Polling and R/B for END of Write Detection
- Write Protection by RES Pin
- High Reliability CMOS Technology
Endurance: 10^4 Cycles (in Page Mode)
Data Retention: 10 years
- Single +5V Power Supply, $\pm 10\%$ Tolerance
- CMOS and TTL Compatible Inputs and Outputs
- Package Available: 60-Pin TSOP Stack

* Byte, Word or Double Word (BWDW).



PIN NAMES	
A0 - A16	Address Inputs
I/O0 - I/O31	Data Input/Output
CE0 - CE3	Low Chip Enables
WE	Write Enable
OE	Output Enable
RES	Reset
R/B	Ready/Busy
VDD	Power (+5V)
VSS	Ground
N.C.	No Connect



DPE128X32Y5

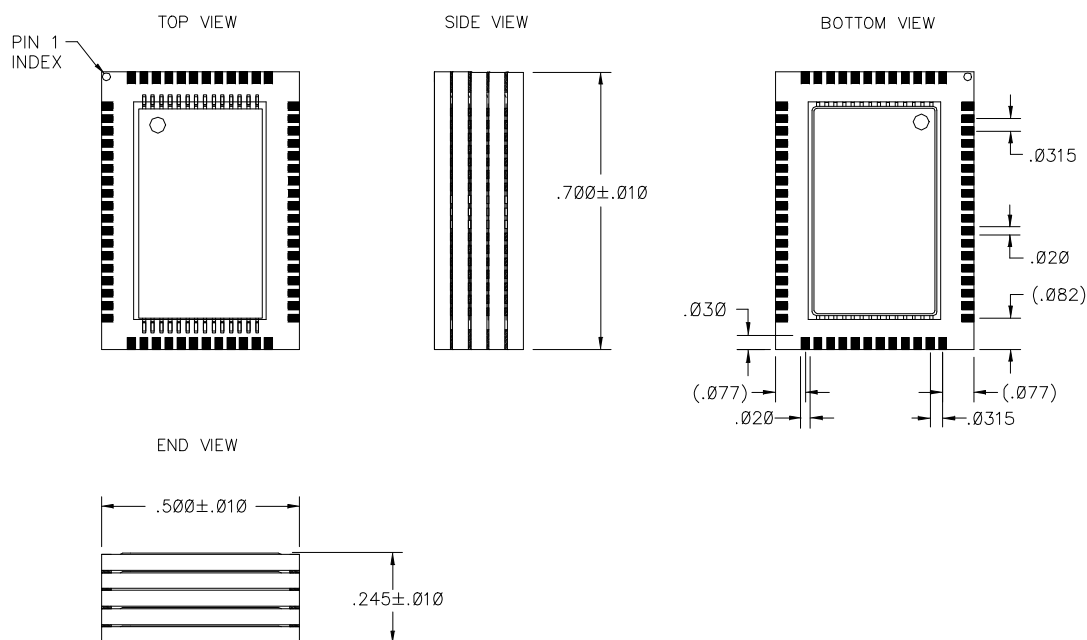
Dense-Pac Microsystems, Inc.

ADVANCED INFORMATION

ORDERING INFORMATION

DP	E	128	X	32	Y5	- 15	C	
PREFIX	TYPE	MEMORY DEPTH	DESIG	MEMORY WIDTH	PACKAGE	SPEED	GRADE	
								C COMMERCIAL 0°C to +70°C
								15 150ns
								60-PIN TSOP STACK
								MEMORY MODULE WITHOUT SUPPORT LOGIC
								CMOS EEPROM

MECHANICAL DRAWING



Dense-Pac Microsystems, Inc.

7321 Lincoln Way, Garden Grove, California 92841-1431

(714) 898-0007 ♦ (800) 642-4477 ♦ FAX: (714) 897-1772 ♦ <http://www.dense-pac.com>