

**PRODUCT DISCONTINUANCE NOTICE  
SELECTED DEVICES TO BECOME OBSOLETE**

During 1996 and 1997 Altera will be discontinuing selected devices. A summary of the devices affected and last order/last shipment dates are listed in Table 1; a list of affected ordering codes are given in Table 2.

Rochester Electronics, an extended life supplier, offers limited support for selected products discontinued by Altera -- a complete list of Rochester Electronics sales offices is attached. Please contact your local Altera Sales Representative if you require additional information regarding the changes described in this PDN.

**Table 1: Summary of Devices to Become Obsolete**  
*(includes all packages, speed- and temperature-grades)*

<b>Device</b>	<b>Last Order Date</b>	<b>Last Shipment Date</b>	<b>Alternatives</b>
EP220	3/31/97	9/30/97	Industry-standard 16V8 or integrate into EPM7032.
EP224	3/31/97	9/30/97	Industry-standard 20V8 or integrate into EPM7032.
EP22V10	6/28/96	9/30/96	Industry-standard 22V10 or integrate into EPM7032.
EP22V10E	6/28/96	9/30/96	Evaluate industry-standard 22V10 or integrate into EPM7032.
EP312	3/31/97	9/30/97	No direct replacement. Consult factory for redesign possibilities.
EP320I	6/28/96	9/30/96	Industry-standard 16V8 or integrate into EPM7032.
EP324	3/31/97	9/30/97	No direct replacement. Consult factory for redesign possibilities.
EPM5016	3/31/97	9/30/97	No direct replacement. Consult factory for redesign possibilities.
EPS448	3/31/97	9/30/97	2 <sup>nd</sup> sourced by WSI.
EPS464	3/31/97	9/30/97	EPM7064 is pin compatible.
EPX740	3/31/97	9/30/97	No direct replacement. Consult factory for redesign possibilities.

**Table 2: Ordering Codes to Become Obsolete**

Ordering Code	Last Order Date	Last Shipment Date
EP220LC-7A	3/31/97	9/30/97
EP220LC-7	3/31/97	9/30/97
EP220LC-10A	3/31/97	9/30/97
EP220LC-10	3/31/97	9/30/97
EP220LC-12	3/31/97	9/30/97
EP220LI-10	3/31/97	9/30/97
EP220LI-12	3/31/97	9/30/97
EP220PC-7	3/31/97	9/30/97
EP220PC-10A	3/31/97	9/30/97
EP220PC-10	3/31/97	9/30/97
EP220PC-12	3/31/97	9/30/97
EP224LC-7A	3/31/97	9/30/97
EP224LC-7	3/31/97	9/30/97
EP224LC-10A	3/31/97	9/30/97
EP224LC-12	3/31/97	9/30/97
EP224PC-7	3/31/97	9/30/97
EP224PC-10A	3/31/97	9/30/97
EP22V10LC-10	6/28/96	9/30/96
EP22V10LC-15	6/28/96	9/30/96
EP22V10LC-7	6/28/96	9/30/96
EP22V10PC-10	6/28/96	9/30/96
EP22V10PC-15	6/28/96	9/30/96
EP22V10PC-7	6/28/96	9/30/96
EP22V10ELC-10	6/28/96	9/30/96
EP22V10ELC-15	6/28/96	9/30/96
EP22V10ELI-15	6/28/96	9/30/96
EP22V10EPC-10	6/28/96	9/30/96
EP22V10EPC-15	6/28/96	9/30/96
EP312DC-25	3/31/97	9/30/97
EP312LC-25	3/31/97	9/30/97
EP312LI-30	3/31/97	9/30/97
EP312PC-25	3/31/97	9/30/97
EP312PC-30	3/31/97	9/30/97
EP320IDC-30	6/28/96	9/30/96
EP320IDC-35	6/28/96	9/30/96
EP320IDC-40	6/28/96	9/30/96
EP320IDI-35	6/28/96	9/30/96
EP320IDI-40	6/28/96	9/30/96
EP320IPC-30	6/28/96	9/30/96
EP320IPC-35	6/28/96	9/30/96
EP320IPC-40	6/28/96	9/30/96
EP320IPI-35	6/28/96	9/30/96
EP320IPI-40	6/28/96	9/30/96
EP324DC-25	3/31/97	9/30/97
EP324LC-25	3/31/97	9/30/97

Ordering Code	Last Order Date	Last Shipment Date
EP324LC-30	3/31/97	9/30/97
EP324LI-30	3/31/97	9/30/97
EP324PC-25	3/31/97	9/30/97
EPM5016DC-15	3/31/97	9/30/97
EPM5016DC-17	3/31/97	9/30/97
EPM5016DC-20	3/31/97	9/30/97
EPM5016DI-20	3/31/97	9/30/97
EPM5016LC-15	3/31/97	9/30/97
EPM5016LC-17	3/31/97	9/30/97
EPM5016LC-20	3/31/97	9/30/97
EPM5016LI-20	3/31/97	9/30/97
EPM5016PC-15	3/31/97	9/30/97
EPM5016PC-17	3/31/97	9/30/97
EPM5016PC-20	3/31/97	9/30/97
EPM5016PI-20	3/31/97	9/30/97
EPM5016SC-15	3/31/97	9/30/97
EPM5016SC-17	3/31/97	9/30/97
EPS448LC-20	3/31/97	9/30/97
EPS448LC-25	3/31/97	9/30/97
EPS448LC-25A	3/31/97	9/30/97
EPS448PC-16	3/31/97	9/30/97
EPS448PC-20	3/31/97	9/30/97
EPS448PC-25	3/31/97	9/30/97
EPS448PC-25A	3/31/97	9/30/97
EPS464JC-20	3/31/97	9/30/97
EPS464JC-25	3/31/97	9/30/97
EPS464LC-20	3/31/97	9/30/97
EPS464LC-25	3/31/97	9/30/97
EPS464LI-20	3/31/97	9/30/97
EPS464LI-25	3/31/97	9/30/97
EPS464QC-20	3/31/97	9/30/97
EPS464QC-25	3/31/97	9/30/97
EPX740LC44-10	3/31/97	9/30/97
EPX740LC44-10Z	3/31/97	9/30/97
EPX740LC44-15	3/31/97	9/30/97
EPX740LC68-10	3/31/97	9/30/97
EPX740LC68-10Z	3/31/97	9/30/97
EPX740LC68-15	3/31/97	9/30/97
EPX740LC68-15Z	3/31/97	9/30/97
EPX740LI68-12	3/31/97	9/30/97

## **Rochester Electronics Sales Offices**

### ***Corporate Sales Office:***

10 Malcolm Hoyt Drive  
Newburyport, MA 01950 USA  
Tel.: (508) 462-9332  
Fax: (508) 462-9512

### ***European Sales Office:***

Rochester Electronics, Ltd.  
Suite 2D, Britannia House, Leagrave Rd.  
Luton, Bedfordshire, England LU3 1RJ  
Tel.: 44 (01) 582 488680  
Fax: 44 (01) 582488681

### ***North American Representatives:***

Angle Associates (Southern California) - Tel. (714) 582-8858 - Fax (714) 582-9589  
Belmont Group (New England) - Tel.: (508) 358-5973 - Fax (508) 358-5973  
Comstrand, Inc. (MN, ND, SD, W.WI) - Tel.: (612) 574-9480 - Fax (612) 574-9486  
J.F. Hurlbut, Co. (AZ, CO, NM, UT) - Tel.: (303) 279-7796 - Fax (303) 278-9909  
Link Technical Sales (AR, LA, OK, TX) - Tel.: (214) 888-1041 - Fax (214) 241-1089  
Marcon Sales, Inc. (Northern California) - Tel.: (408) 263-3660 - Fax (408) 262-6802  
Vitel Electronics (Canada) - Tel.: (905) 564-9720 - Fax (905) 564-5719  
Zimmerman Sales, Inc. (Upstate NY) - Tel.: (716) 381-3186 - Fax (716) 385-2103

### ***Asian Representatives:***

KH Electronics (Japan) - Tel.: (03) 3587 6235 - Fax (03) 3584-6394  
Shimbashi Ekimac Building 2-Gokan  
21-1, Shimbashi 2-Chome, Minato-Ku, Tokyo 105, Japan

### ***European Representatives:***

Biddulph Electronics (France) - Tel.: (33) 32 3564 80 - Fax (33) 32 3500 66  
15 Rue du Val, 27110 Iville, France

Municom (Germany, Switz., Austria) - Tel.: (49) 8641-5036 - Fax (49) 8641-3039  
Gewerbepack, D-83224 Grassau, Germany

Spacerep (Italy) - Tel.: (39) 2 878 894 - Fax (39) 2 864 60219  
Via Gonzaga, 20123 Milan, Italy

Startronics (Israel) - Tel.: (972) 3 696 0148 - Fax (972) 3 696 0255  
7, Derech Hashalom, Tel-Aviv 67892, Israel