



Intel® FPGAs



Image may be representation. See specifications for product details.

EP3C16M164I7N

|                     |                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------|
| Part Number:        | EP3C16M164I7N                                                                                                |
| Manufacturer/Brand: | Intel® FPGAs                                                                                                 |
| Product description | IC FPGA 92 I/O 164MBGA                                                                                       |
|                     |  1.EP3C16M164I7N.pdf        |
|                     |  2.EP3C16M164I7N.pdf        |
|                     |  3.EP3C16M164I7N.pdf        |
|                     |  4.EP3C16M164I7N.pdf        |
|                     |  5.EP3C16M164I7N.pdf        |
|                     |  6.EP3C16M164I7N.pdf        |
|                     |  7.EP3C16M164I7N.pdf        |
|                     |  8.EP3C16M164I7N.pdf        |
| Datasheets:         |                                                                                                              |
| RoHs Status         |  Lead free / RoHS Compliant |
| Stock Condition     | 1891 pcs stock                                                                                               |
|                     | Hong Kong                                                                                                    |
| Shipment way        | DHL/Fedex/TNT/UPS/EMS                                                                                        |

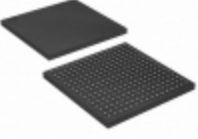
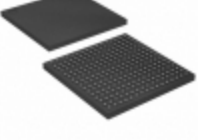
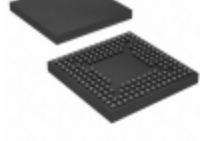
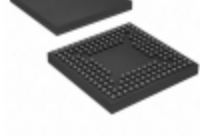
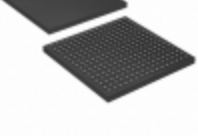
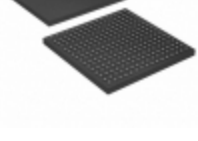
Specifications of EP3C16M164I7N

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PART NUMBER                      | EP3C16M164I7N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MANUFACTURER                     | Intel® FPGAs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| DESCRIPTION                      | IC FPGA 92 I/O 164MBGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| QUANTITY AVAILABLE               | 1891 pcs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| DATA SHEET                       |  1.EP3C16M164I7N.pdf<br> 2.EP3C16M164I7N.pdf<br> 3.EP3C16M164I7N.pdf<br> 4.EP3C16M164I7N.pdf<br> 5.EP3C16M164I7N.pdf<br> 6.EP3C16M164I7N.pdf<br> 7.EP3C16M164I7N.pdf<br> 8.EP3C16M164I7N.pdf |
| VOLTAGE - SUPPLY                 | 1.15 V ~ 1.25 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| TOTAL RAM BITS                   | 516096                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| SUPPLIER DEVICE PACKAGE          | 164-MBGA (8x8)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SERIES                           | Cyclone® III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| PACKAGE / CASE                   | 164-TFBGA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| OTHER NAMES                      | 544-3187<br>EP3C16M164I7N-ND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| OPERATING TEMPERATURE            | -40°C ~ 100°C (TJ)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NUMBER OF LOGIC ELEMENTS/CELLS   | 15408                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| NUMBER OF LABS/CLBS              | 963                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| NUMBER OF I/O                    | 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| MOUNTING TYPE                    | Surface Mount                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MOISTURE SENSITIVITY LEVEL (MSL) | 3 (168 Hours)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| LEAD FREE STATUS / ROHS STATUS   | Lead free / RoHS Compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| BASE PART NUMBER                 | EP3C16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

Related Tags

|                             |                                  |                                |
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| Intel® FPGAs EP3C16M164I7N  | EP3C16M164I7N Distributor        | EP3C16M164I7N Supplier         |
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| Intel® FPGAs EP3C16M164I7N  |                                  |                                |

Related Products

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|  <div><b>EP3C16F484I7</b><br/>Manufacturers: Altera (Intel® Programmable Solutions Group)<br/>Description: IC FPGA 346 I/O 484FBGA<br/>In stock: 1349 pcs<br/><div>RFQ</div></div> |  <div><b>EP3C16Q240C8</b><br/>Manufacturers: Intel® FPGAs<br/>Description: IC FPGA 160 I/O 240QFP<br/>In stock: 2331 pcs<br/><div>RFQ</div></div>                                   |
|  <div><b>EP3C16F484C8</b><br/>Manufacturers: Altera (Intel® Programmable Solutions Group)<br/>Description: IC FPGA 346 I/O 484FBGA<br/>In stock: 2011 pcs<br/><div>RFQ</div></div> |  <div><b>EP3C16U256C7</b><br/>Manufacturers: Altera (Intel® Programmable Solutions Group)<br/>Description: IC FPGA 168 I/O 256UBGA<br/>In stock: 2037 pcs<br/><div>RFQ</div></div>  |
|  <div><b>EP3C16F484C8N</b><br/>Manufacturers: Intel® FPGAs<br/>Description: IC FPGA 346 I/O 484FBGA<br/>In stock: 2525 pcs<br/><div>RFQ</div></div>                                |  <div><b>EP3C16U256C6</b><br/>Manufacturers: Altera (Intel® Programmable Solutions Group)<br/>Description: IC FPGA 168 I/O 256UBGA<br/>In stock: 1635 pcs<br/><div>RFQ</div></div>  |
|  <div><b>EP3C16M164C7N</b><br/>Manufacturers: Altera (Intel® Programmable Solutions Group)<br/>Description: IC FPGA 92 I/O 164MBGA<br/>In stock: 2493 pcs<br/><div>RFQ</div></div> |  <div><b>EP3C16F484I7N</b><br/>Manufacturers: Altera (Intel® Programmable Solutions Group)<br/>Description: IC FPGA 168 I/O 484FBGA<br/>In stock: 1639 pcs<br/><div>RFQ</div></div> |
|  <div><b>EP3C16M164C8N</b><br/>Manufacturers: Intel® FPGAs<br/>Description: IC FPGA 92 I/O 164MBGA<br/>In stock: 2355 pcs<br/><div>RFQ</div></div>                                 |  <div><b>EP3C16U256C6N</b><br/>Manufacturers: Altera (Intel® Programmable Solutions Group)<br/>Description: IC FPGA 168 I/O 256UBGA<br/>In stock: 1551 pcs<br/><div>RFQ</div></div> |
|  <div><b>EP3C16Q240C8N</b><br/>Manufacturers: Intel® FPGAs<br/>Description: IC FPGA 160 I/O 240QFP<br/>In stock: 2852 pcs<br/><div>RFQ</div></div>                                 |  <div><b>EP3C16U256A7N</b><br/>Manufacturers: Intel® FPGAs<br/>Description: IC FPGA 168 I/O 256UBGA<br/>In stock: 1286 pcs<br/><div>RFQ</div></div>                                 |