



Dear Lattice Customers,

This letter addresses inquiries regarding the Dual-mark devices of Lattice Semiconductor.

Some legacy Lattice silicon products utilize a **“dual-mark” topside device mark strategy that combines the commercial and industrial speed grades into a single format**, which is explained in the datasheet of the respective products. This dual-mark device marking reflect two corresponding speed grades, with the commercial speed grade that is always one speed grade faster (e.g. LCMXO2280C-**4**FTN324**C**) than the associated industrial speed grade (e.g. LCMXO2280C-**3**FTN324**I**).

Both commercial and the alternate industrial ordering part numbers are **sourced from the same physical inventory which is the commercial product**. Therefore, inner box labels show the commercial part number as the primary product, with the alternate product printed on the second line. This approach reduces inventory line items and simplifies the order fulfillment process.

A dual-mark format example can be found on the next page. An actual top mark photo is shown, with corresponding inner box label and datasheet ordering information for reference.

The appendix table, on the otherhand, specifies all part numbers that follow this dual-mark strategy, including the following part numbers from different product families. The commercial part numbers on the left side are basically the same as its alternate part number on the right side of the table. This is explained in the respective datasheets of the products.

- LCMXO2280C-**5**BN256**C** (same as its alternate part number LCMXO2280C-**4**BN256**I**)
- LFE2M100-**6**FN1152**C** (same as its alternate part number LFE2M100E-**5**FN1152**I**)
- LC4032C-**7**5TN44**C** (same as its alternate part number LC4032C-**1**0TN44**I**)
- LC4032ZE-**4**MN64**C** (same as its alternate part number LC4032ZE-**5**MN64**I**)

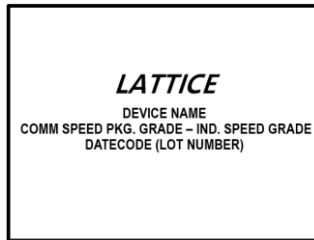
Sincerely,

Lattice Semiconductor Corporation

Dual Mark Device –

Samples of Top Mark, Inner Box Label and Datasheet Ordering Information (LCMX02280C-4FTN324C vs. the alternate product LCMX02280C-3FTN324I)

Generic Topside Dual Mark Format



Actual Example Topside Dual Mark



Note:
Lattice Semiconductor offers a variety of device packaging. Because of topside marking space constraints of smaller packages in some product families, the package information in the industrial device name ("FTN324" in example above) is **not repeated** on the topside mark (i.e., only "3I" will be marked instead of "3FTN324I").
In some other small packages, the package code may also be truncated (e.g.: MN132 marked as MN2), or the Commercial grade ("C") is removed from the topside mark. It is best to refer to the Datasheet of the product that is being ordered.

Datasheet Ordering Information

LATTICE MachXO Family Sheet Data Sheet

5. Ordering Information

5.1. Part Number Description

Device Family: LCMXO PLD
Logic Capacity: 256 LUTs = 256, 640 LUTs = 640, 1200 LUTs = 1200, 2280 LUTs = 2280
Supply Voltage: C = 1.8 V / 2.5 V / 3.3 V, E = 1.2 V
Note: Parts dual marked as described.

LCMXO XXXX X -X XXXXXX X XX

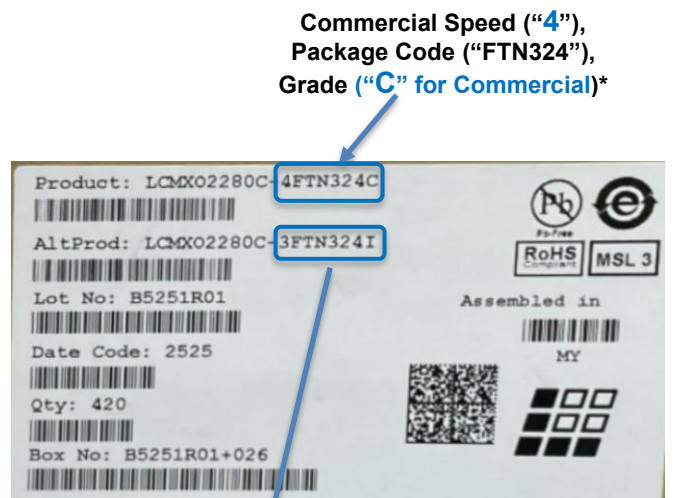
- ES = Engineering Sample
- Blank = Production Device
- Grade: C = Commercial, I = Industrial
- Package: T100 = 100-pin TQFP, T144 = 144-pin TQFP, M100 = 100-ball csBGA, M132 = 132-ball csBGA, B256 = 256-ball csBGA, FT256 = 256-ball ftBGA, FT324 = 324-ball ftBGA, TN100 = 100-pin Lead-Free TQFP, TN144 = 144-pin Lead-Free TQFP, MN100 = 100-ball Lead-Free csBGA, MN132 = 132-ball Lead-Free csBGA, BN256 = 256-ball Lead-Free csBGA, FTN256 = 256-ball Lead-Free ftBGA, FTN324 = 324-ball Lead-Free ftBGA
- Speed: 3 = Slowest, 4, 5 = Fastest

5.2. Ordering Information

Note: MachXO devices are dual marked except the slowest commercial speed grade device. For example the commercial speed grade LCMX0640E-4F256C is also marked with industrial grade -3I grade. The slowest commercial speed grade does not have industrial markings. The markings appears as follows:

LATTICE
LCMX0640E
4F256C-3I
Date code
Dual Mark

Inner Box Label Information



**Industrial Speed* ("3"),
Package Code ("FTN324"),
Grade ("I" for Industrial)***

* Industrial speed (in this example, "3") is always lower than that of its Commercial alternate product

Appendix: Lattice Legacy Devices with Dual Top Mark Strategy

Product Family
Link to Datasheet

Mach XO
[MachXO Family Data Sheet](#)

Commercial OPN	Industrial OPN
LCMXO1200C-4BN256C	LCMXO1200C-3BN256I
LCMXO1200C-4FTN256C	LCMXO1200C-3FTN256I
LCMXO1200C-4MN132C	LCMXO1200C-3MN132I
LCMXO1200C-4TN100C	LCMXO1200C-3TN100I
LCMXO1200C-4TN144C	LCMXO1200C-3TN144I
LCMXO1200C-5BN256C	LCMXO1200C-4BN256I
LCMXO1200C-5FTN256C	LCMXO1200C-4FTN256I
LCMXO1200C-5MN132C	LCMXO1200C-4MN132I
LCMXO1200C-5TN100C	LCMXO1200C-4TN100I
LCMXO1200C-5TN144C	LCMXO1200C-4TN144I
LCMXO1200E-4BN256C	LCMXO1200E-3BN256I
LCMXO1200E-4FTN256C	LCMXO1200E-3FTN256I
LCMXO1200E-4MN132C	LCMXO1200E-3MN132I
LCMXO1200E-4TN100C	LCMXO1200E-3TN100I
LCMXO1200E-4TN144C	LCMXO1200E-3TN144I
LCMXO1200E-5BN256C	LCMXO1200E-4BN256I
LCMXO1200E-5FTN256C	LCMXO1200E-4FTN256I
LCMXO1200E-5MN132C	LCMXO1200E-4MN132I
LCMXO1200E-5TN100C	LCMXO1200E-4TN100I
LCMXO1200E-5TN144C	LCMXO1200E-4TN144I
LCMXO2280C-4BN256C	LCMXO2280C-3BN256I
LCMXO2280C-4FTN256C	LCMXO2280C-3FTN256I
LCMXO2280C-4FTN324C	LCMXO2280C-3FTN324I
LCMXO2280C-4MN132C	LCMXO2280C-3MN132I
LCMXO2280C-4TN100C	LCMXO2280C-3TN100I
LCMXO2280C-4TN144C	LCMXO2280C-3TN144I
LCMXO2280C-5BN256C	LCMXO2280C-4BN256I
LCMXO2280C-5FTN256C	LCMXO2280C-4FTN256I
LCMXO2280C-5FTN324C	LCMXO2280C-4FTN324I
LCMXO2280C-5MN132C	LCMXO2280C-4MN132I
LCMXO2280C-5TN100C	LCMXO2280C-4TN100I
LCMXO2280C-5TN144C	LCMXO2280C-4TN144I
LCMXO2280E-4BN256C	LCMXO2280E-3BN256I
LCMXO2280E-4FTN256C	LCMXO2280E-3FTN256I
LCMXO2280E-4FTN324C	LCMXO2280E-3FTN324I
LCMXO2280E-4MN132C	LCMXO2280E-3MN132I
LCMXO2280E-4TN100C	LCMXO2280E-3TN100I
LCMXO2280E-4TN144C	LCMXO2280E-3TN144I
LCMXO2280E-5BN256C	LCMXO2280E-4BN256I

Cont.

Commercial OPN	Industrial OPN
LCMXO2280E-5FTN256C	LCMXO2280E-4FTN256I
LCMXO2280E-5FTN324C	LCMXO2280E-4FTN324I
LCMXO2280E-5MN132C	LCMXO2280E-4MN132I
LCMXO2280E-5TN100C	LCMXO2280E-4TN100I
LCMXO2280E-5TN144C	LCMXO2280E-4TN144I
LCMXO256C-4MN100C	LCMXO256C-3MN100I
LCMXO256C-4TN100C	LCMXO256C-3TN100I
LCMXO256C-5MN100C	LCMXO256C-4MN100I
LCMXO256C-5TN100C	LCMXO256C-4TN100I
LCMXO256E-4MN100C	LCMXO256E-3MN100I
LCMXO256E-4TN100C	LCMXO256E-3TN100I
LCMXO256E-5MN100C	LCMXO256E-4MN100I
LCMXO256E-5TN100C	LCMXO256E-4TN100I
LCMXO640C-4BN256C	LCMXO640C-3BN256I
LCMXO640C-4FTN256C	LCMXO640C-3FTN256I
LCMXO640C-4MN100C	LCMXO640C-3MN100I
LCMXO640C-4MN132C	LCMXO640C-3MN132I
LCMXO640C-4TN100C	LCMXO640C-3TN100I
LCMXO640C-4TN144C	LCMXO640C-3TN144I
LCMXO640C-5BN256C	LCMXO640C-4BN256I
LCMXO640C-5FTN256C	LCMXO640C-4FTN256I
LCMXO640C-5MN100C	LCMXO640C-4MN100I
LCMXO640C-5MN132C	LCMXO640C-4MN132I
LCMXO640C-5TN100C	LCMXO640C-4TN100I
LCMXO640C-5TN144C	LCMXO640C-4TN144I
LCMXO640E-4BN256C	LCMXO640E-3BN256I
LCMXO640E-4FTN256C	LCMXO640E-3FTN256I
LCMXO640E-4MN100C	LCMXO640E-3MN100I
LCMXO640E-4MN132C	LCMXO640E-3MN132I
LCMXO640E-4TN100C	LCMXO640E-3TN100I
LCMXO640E-4TN144C	LCMXO640E-3TN144I
LCMXO640E-5BN256C	LCMXO640E-4BN256I
LCMXO640E-5FTN256C	LCMXO640E-4FTN256I
LCMXO640E-5MN100C	LCMXO640E-4MN100I
LCMXO640E-5MN132C	LCMXO640E-4MN132I
LCMXO640E-5TN100C	LCMXO640E-4TN100I
LCMXO640E-5TN144C	LCMXO640E-4TN144I

Product Family
Link to Datasheet

LatticeECP2 Family
[LatticeECP2/M Family Data Sheet](#)

Commercial OPN	Industrial OPN
LFE2-12E-6FN256C	LFE2-12E-5FN256I
LFE2-12E-6FN484C	LFE2-12E-5FN484I
LFE2-12E-6QN208C	LFE2-12E-5QN208I
LFE2-12E-6TN144C	LFE2-12E-5TN144I
LFE2-12E-7FN256C	LFE2-12E-6FN256I
LFE2-12E-7FN484C	LFE2-12E-6FN484I
LFE2-12E-7QN208C	LFE2-12E-6QN208I
LFE2-12E-7TN144C	LFE2-12E-6TN144I
LFE2-12SE-6FN256C	LFE2-12SE-5FN256I
LFE2-12SE-6FN484C	LFE2-12SE-5FN484I
LFE2-12SE-6QN208C	LFE2-12SE-5QN208I
LFE2-12SE-6TN144C	LFE2-12SE-5TN144I
LFE2-12SE-7FN256C	LFE2-12SE-6FN256I
LFE2-12SE-7FN484C	LFE2-12SE-6FN484I
LFE2-12SE-7QN208C	LFE2-12SE-6QN208I
LFE2-12SE-7TN144C	LFE2-12SE-6TN144I
LFE2-20E-6FN256C	LFE2-20E-5FN256I
LFE2-20E-6FN484C	LFE2-20E-5FN484I
LFE2-20E-6FN672C	LFE2-20E-5FN672I
LFE2-20E-6QN208C	LFE2-20E-5QN208I
LFE2-20E-7FN256C	LFE2-20E-6FN256I
LFE2-20E-7FN484C	LFE2-20E-6FN484I
LFE2-20E-7FN672C	LFE2-20E-6FN672I
LFE2-20E-7QN208C	LFE2-20E-6QN208I
LFE2-20SE-6FN256C	LFE2-20SE-5FN256I
LFE2-20SE-6FN484C	LFE2-20SE-5FN484I
LFE2-20SE-6FN672C	LFE2-20SE-5FN672I
LFE2-20SE-6QN208C	LFE2-20SE-5QN208I
LFE2-20SE-7FN256C	LFE2-20SE-6FN256I
LFE2-20SE-7FN484C	LFE2-20SE-6FN484I
LFE2-20SE-7FN672C	LFE2-20SE-6FN672I
LFE2-20SE-7QN208C	LFE2-20SE-6QN208I
LFE2-35E-6FN484C	LFE2-35E-5FN484I
LFE2-35E-6FN672C	LFE2-35E-5FN672I
LFE2-35E-7FN484C	LFE2-35E-6FN484I
LFE2-35E-7FN672C	LFE2-35E-6FN672I
LFE2-35SE-6FN484C	LFE2-35SE-5FN484I
LFE2-35SE-6FN672C	LFE2-35SE-5FN672I
LFE2-35SE-7FN484C	LFE2-35SE-6FN484I
LFE2-35SE-7FN672C	LFE2-35SE-6FN672I

Cont.

Commercial OPN	Industrial OPN
LFE2-50E-6FN484C	LFE2-50E-5FN484I
LFE2-50E-6FN672C	LFE2-50E-5FN672I
LFE2-50E-7FN484C	LFE2-50E-6FN484I
LFE2-50E-7FN672C	LFE2-50E-6FN672I
LFE2-50SE-6FN484C	LFE2-50SE-5FN484I
LFE2-50SE-6FN672C	LFE2-50SE-5FN672I
LFE2-50SE-7FN484C	LFE2-50SE-6FN484I
LFE2-50SE-7FN672C	LFE2-50SE-6FN672I
LFE2-6E-6FN256C	LFE2-6E-5FN256I
LFE2-6E-6TN144C	LFE2-6E-5TN144I
LFE2-6E-7FN256C	LFE2-6E-6FN256I
LFE2-6E-7TN144C	LFE2-6E-6TN144I
LFE2-6SE-6FN256C	LFE2-6SE-5FN256I
LFE2-6SE-6TN144C	LFE2-6SE-5TN144I
LFE2-6SE-7FN256C	LFE2-6SE-6FN256I
LFE2-6SE-7TN144C	LFE2-6SE-6TN144I
LFE2-70E-6FN672C	LFE2-70E-5FN672I
LFE2-70E-6FN900C	LFE2-70E-5FN900I
LFE2-70E-7FN672C	LFE2-70E-6FN672I
LFE2-70E-7FN900C	LFE2-70E-6FN900I
LFE2-70SE-6FN672C	LFE2-70SE-5FN672I
LFE2-70SE-6FN900C	LFE2-70SE-5FN900I
LFE2-70SE-7FN672C	LFE2-70SE-6FN672I
LFE2-70SE-7FN900C	LFE2-70SE-6FN900I

Product Family
Link to Datasheet

LatticeECP2M Family
[LatticeECP2/M Family Data Sheet](#)

Commercial OPN	Industrial OPN
LFE2M100E-6FN1152C	LFE2M100E-5FN1152I
LFE2M100E-6FN900C	LFE2M100E-5FN900I
LFE2M100E-7FN1152C	LFE2M100E-6FN1152I
LFE2M100E-7FN900C	LFE2M100E-6FN900I
LFE2M100SE-6FN1152C	LFE2M100SE-5FN1152I
LFE2M100SE-6FN900C	LFE2M100SE-5FN900I
LFE2M100SE-7FN1152C	LFE2M100SE-6FN1152I
LFE2M100SE-7FN900C	LFE2M100SE-6FN900I
LFE2M20E-6FN256C	LFE2M20E-5FN256I
LFE2M20E-6FN484C	LFE2M20E-5FN484I
LFE2M20E-7FN256C	LFE2M20E-6FN256I
LFE2M20E-7FN484C	LFE2M20E-6FN484I
LFE2M20SE-6FN256C	LFE2M20SE-5FN256I
LFE2M20SE-6FN484C	LFE2M20SE-5FN484I
LFE2M20SE-7FN256C	LFE2M20SE-6FN256I
LFE2M20SE-7FN484C	LFE2M20SE-6FN484I
LFE2M35E-6FN256C	LFE2M35E-5FN256I
LFE2M35E-6FN484C	LFE2M35E-5FN484I
LFE2M35E-6FN672C	LFE2M35E-5FN672I
LFE2M35E-7FN256C	LFE2M35E-6FN256I
LFE2M35E-7FN484C	LFE2M35E-6FN484I
LFE2M35E-7FN672C	LFE2M35E-6FN672I
LFE2M35SE-6FN256C	LFE2M35SE-5FN256I
LFE2M35SE-6FN484C	LFE2M35SE-5FN484I
LFE2M35SE-6FN672C	LFE2M35SE-5FN672I
LFE2M35SE-7FN256C	LFE2M35SE-6FN256I
LFE2M35SE-7FN484C	LFE2M35SE-6FN484I
LFE2M35SE-7FN672C	LFE2M35SE-6FN672I

Cont.

Commercial OPN	Industrial OPN
LFE2M50E-6FN484C	LFE2M50E-5FN484I
LFE2M50E-6FN672C	LFE2M50E-5FN672I
LFE2M50E-6FN900C	LFE2M50E-5FN900I
LFE2M50E-7FN484C	LFE2M50E-6FN484I
LFE2M50E-7FN672C	LFE2M50E-6FN672I
LFE2M50E-7FN900C	LFE2M50E-6FN900I
LFE2M50SE-6FN484C	LFE2M50SE-5FN484I
LFE2M50SE-6FN672C	LFE2M50SE-5FN672I
LFE2M50SE-6FN900C	LFE2M50SE-5FN900I
LFE2M50SE-7FN484C	LFE2M50SE-6FN484I
LFE2M50SE-7FN672C	LFE2M50SE-6FN672I
LFE2M50SE-7FN900C	LFE2M50SE-6FN900I
LFE2M70E-6FN1152C	LFE2M70E-5FN1152I
LFE2M70E-6FN900C	LFE2M70E-5FN900I
LFE2M70E-7FN1152C	LFE2M70E-6FN1152I
LFE2M70E-7FN900C	LFE2M70E-6FN900I
LFE2M70SE-6FN1152C	LFE2M70SE-5FN1152I
LFE2M70SE-6FN900C	LFE2M70SE-5FN900I
LFE2M70SE-7FN1152C	LFE2M70SE-6FN1152I
LFE2M70SE-7FN900C	LFE2M70SE-6FN900I

Product Family
Link to Datasheet

LatticeEC/ECP Families
[LatticeECP/EC Family Data Sheet](#)

Commercial OPN	Industrial OPN
LFEC10E-4FN256C	LFEC10E-3FN256I
LFEC1E-4TN100C	LFEC1E-3TN100I
LFEC3E-4F256C	LFEC3E-3F256I
LFEC6E-4FN256C	LFEC6E-3FN256I

Product Family
Link to Datasheet

ispMACH 4A, MACH 4 & MACH 5 Family
[ispMACH 4A Data Sheet \(vL\)](#)

Commercial OPN	Industrial OPN
M4A3-32/32-5VNC48	M4A3-32/32-7VNI48
M4A3-32/32-5VNC	M4A3-32/32-7VNI
M4A3-32/32-7VNC48	M4A3-32/32-10VNI48
M4A3-32/32-7VNC	M4A3-32/32-10VNI
M4A3-32/32-10VNC48	M4A3-32/32-12VNI48
M4A3-32/32-10VNC	M4A3-32/32-12VNI
M4A3-64/32-7VNC48	M4A3-64/32-10VNI48
M4A3-64/32-7VNC	M4A3-64/32-10VNI
M4A3-64/32-10VNC48	M4A3-64/32-12VNI48
M4A3-64/32-10VNC	M4A3-64/32-12VNI
M4A3-64/32-55VNC48	M4A3-64/32-7VNI48
M4A3-64/32-55VNC	M4A3-64/32-7VNI
M4A3-64/32-55JNC	M4A3-64/32-7JNI
M4A3-64/64-7VNC	M4A3-64/64-10VNI
M4A3-64/64-10VNC	M4A3-64/64-12VNI
M4A3-64/64-55VNC	M4A3-64/64-7VNI
M4A3-96/48-10VNC	M4A3-96/48-12VNI
M4A3-128/64-7VNC	M4A3-128/64-10VNI
M4A3-128/64-10VNC	M4A3-128/64-12VNI
M4A3-128/64-55VNC	M4A3-128/64-7VNI
M4A3-192/96-6VNC	M4A3-192/96-7VNI
M4A3-192/96-7VNC	M4A3-192/96-10VNI
M4A3-192/96-10FANC	M4A3-192/96-12FANI
M4A3-192/96-10VNC	M4A3-192/96-12VNI
M4A3-256/128-7FANC	M4A3-256/128-10FANI
M4A3-256/128-7YNC	M4A3-256/128-10YNI
M4A3-256/128-10FANC	M4A3-256/128-12FANI
M4A3-256/128-10YNC	M4A3-256/128-12YNI
M4A3-256/128-55YNC	M4A3-256/128-7YNI
M4A3-256/160-7YNC	M4A3-256/160-10YNI
M4A3-256/160-10YNC	M4A3-256/160-12YNI
M4A3-256/192-7FANC	M4A3-256/192-10FANI
M4A3-256/192-10FANC	M4A3-256/192-12FANI
M4A3-384/192-10FANC	M4A3-384/192-12FANI
M4A3-384/192-12FANC	M4A3-384/192-14FANI
M4A3-384/192-65FANC	M4A3-384/192-10FANI
M4A3-512/192-7FANC	M4A3-512/192-10FANI
M4A3-512/192-10FANC	M4A3-512/192-12FANI

Cont.

Commercial OPN	Industrial OPN
M4A3-512/192-7FANC	M4A3-512/192-10FANI
M4A3-512/192-10FANC	M4A3-512/192-12FANI
M4A3-512/192-12FANC	M4A3-512/192-14FANI
M4A5-32/32-5VNC48	M4A5-32/32-7VNI48
M4A5-32/32-5VNC	M4A5-32/32-7VNI
M4A5-32/32-7VNC48	M4A5-32/32-10VNI48
M4A5-32/32-7VNC	M4A5-32/32-10VNI
M4A5-32/32-10VNC48	M4A5-32/32-12VNI48
M4A5-32/32-10VNC	M4A5-32/32-12VNI
M4A5-64/32-7VNC48	M4A5-64/32-10VNI48
M4A5-64/32-7VNC	M4A5-64/32-10VNI
M4A5-64/32-10VNC48	M4A5-64/32-12VNI48
M4A5-64/32-10VNC	M4A5-64/32-12VNI
M4A5-64/32-55VNC48	M4A5-64/32-7VNI48
M4A5-64/32-55VNC	M4A5-64/32-7VNI
M4A5-64/32-7JNC	M4A5-64/32-10JNI
M4A5-64/32-55JNC	M4A5-64/32-7JNI
M4A5-96/48-7VNC	M4A5-96/48-10VNI
M4A5-96/48-10VNC	M4A5-96/48-12VNI
M4A5-96/48-55VNC	M4A5-96/48-7VNI
M4A5-128/64-7YNC	M4A5-128/64-10YNI
M4A5-128/64-7VNC	M4A5-128/64-10VNI
M4A5-128/64-10VNC	M4A5-128/64-12VNI
M4A5-128/64-55YNC	M4A5-128/64-7YNI
M4A5-128/64-55VNC	M4A5-128/64-7VNI
M4A5-128/64-10YNC	M4A5-128/64-12YNI
M4A5-192/96-6VNC	M4A5-192/96-7VNI
M4A5-192/96-7VNC	M4A5-192/96-10VNI
M4A5-192/96-10VNC	M4A5-192/96-12VNI
M4A5-256/128-7YNC	M4A5-256/128-10YNI
M4A5-256/128-10YNC	M4A5-256/128-12YNI

Product Family**Link to Datasheet****ispMACH 4000V/B/C/Z Family**[ispMACH 4000V/B/C/Z Family Data Sheet](#)

Commercial OPN	Industrial OPN
LC4032C-75TN44C	LC4032C-10TN44I
LC4032V-5TN44C	LC4032V-75TN44I
LC4032V-5TN48C	LC4032V-75TN48I
LC4032V-25TN44C	LC4032V-5TN44I
LC4032V-25TN48C	LC4032V-5TN48I
LC4032V-75TN44C	LC4032V-10TN44I
LC4032V-75TN48C	LC4032V-10TN48I
LC4032ZC-5MN56C	LC4032ZC-75MN56I
LC4032ZC-5TN48C	LC4032ZC-75TN48I
LC4032ZC-35M56C	LC4032ZC-5M56I
LC4032ZC-35MN56C	LC4032ZC-5MN56I
LC4032ZC-35TN48C	LC4032ZC-5TN48I
LC4064C-5TN48C	LC4064C-75TN48I
LC4064V-5TN100C	LC4064V-75TN100I
LC4064V-25TN100C	LC4064V-5TN100I
LC4064V-75TN100C	LC4064V-10TN100I
LC4064V-5TN44C	LC4064V-75TN44I
LC4064V-5TN48C	LC4064V-75TN48I
LC4064V-25TN44C	LC4064V-5TN44I
LC4064V-25TN48C	LC4064V-5TN48I
LC4064V-75TN44C	LC4064V-10TN44I
LC4064V-75TN48C	LC4064V-10TN48I
LC4064ZC-5MN132C	LC4064ZC-75MN132I
LC4064ZC-5MN56C	LC4064ZC-75MN56I
LC4064ZC-5TN100C	LC4064ZC-75TN100I
LC4064ZC-5TN48C	LC4064ZC-75TN48I
LC4064ZC-37MN132C	LC4064ZC-5MN132I
LC4064ZC-37MN56C	LC4064ZC-5MN56I
LC4064ZC-37TN100C	LC4064ZC-5TN100I
LC4064ZC-37TN48C	LC4064ZC-5TN48I
LC4128V-5TN128C	LC4128V-75TN128I
LC4128V-5TN100C	LC4128V-75TN100I
LC4128V-5TN144C	LC4128V-75TN144I
LC4128V-27TN128C	LC4128V-5TN128I
LC4128V-27TN100C	LC4128V-5TN100I
LC4128V-27TN144C	LC4128V-5TN144I
LC4128V-75TN128C	LC4128V-10TN128I
LC4128V-75TN100C	LC4128V-10TN100I
LC4128V-75TN144C	LC4128V-10TN144I
LC4128ZC-42MN132C	LC4128ZC-75MN132I
LC4128ZC-42TN100C	LC4128ZC-75TN100I

Cont.

Commercial OPN	Industrial OPN
LC4256V-3FTN256BC	LC4256V-5FTN256BI
LC4256V-5FT256BC	LC4256V-75FT256BI
LC4256V-5FTN256BC	LC4256V-75FTN256BI
LC4256V-75FT256BC	LC4256V-10FT256BI
LC4256V-75FTN256BC	LC4256V-10FTN256BI
LC4256V-3TN100C	LC4256V-5TN100I
LC4256V-3TN144C	LC4256V-5TN144I
LC4256V-3TN176C	LC4256V-5TN176I
LC4256V-5TN100C	LC4256V-75TN100I
LC4256V-5TN144C	LC4256V-75TN144I
LC4256V-5TN176C	LC4256V-75TN176I
LC4256V-3FTN256AC	LC4256V-5FTN256AI
LC4256V-5FTN256AC	LC4256V-75FTN256AI
LC4256V-75FTN256AC	LC4256V-10FTN256AI
LC4256V-75TN100C	LC4256V-10TN100I
LC4256V-75TN144C	LC4256V-10TN144I
LC4256V-75TN176C	LC4256V-10TN176I
LC4256ZC-45MN132C	LC4256ZC-75MN132I
LC4256ZC-45TN100C	LC4256ZC-75TN100I
LC4256ZC-45TN176C	LC4256ZC-75TN176I
LC4384V-5TN176C	LC4384V-75TN176I
LC4384V-35FTN256C	LC4384V-5FTN256I
LC4384V-35TN176C	LC4384V-5TN176I
LC4384V-5FTN256C	LC4384V-75FTN256I
LC4384V-75FT256C	LC4384V-10FT256I
LC4384V-75FTN256C	LC4384V-10FTN256I
LC4384V-75TN176C	LC4384V-10TN176I
LC4512C-35FT256C	LC4512C-5FT256I
LC4512V-5TN176C	LC4512V-75TN176I
LC4512V-35FTN256C	LC4512V-5FTN256I
LC4512V-35TN176C	LC4512V-5TN176I
LC4512V-5FT256C	LC4512V-75FT256I
LC4512V-5FTN256C	LC4512V-75FTN256I
LC4512V-75FT256C	LC4512V-10FT256I
LC4512V-75FTN256C	LC4512V-10FTN256I
LC4512V-75TN176C	LC4512V-10TN176I

Product Family
Link to Datasheet

ispMACH 4000ZE Family
[ispMACH 4000ZE Family Data Sheet](#)

Commercial OPN	Industrial OPN
LC4032ZE-4MN64C	LC4032ZE-5MN64I
LC4032ZE-4TN48C	LC4032ZE-5TN48I
LC4032ZE-5MN64C	LC4032ZE-7MN64I
LC4032ZE-5TN48C	LC4032ZE-7TN48I
LC4064ZE-4MN144C	LC4064ZE-5MN144I
LC4064ZE-4MN64C	LC4064ZE-5MN64I
LC4064ZE-4TN100C	LC4064ZE-5TN100I
LC4064ZE-4UMN64C	LC4064ZE-5UMN64I
LC4064ZE-4TN48C	LC4064ZE-5TN48I
LC4064ZE-5MN144C	LC4064ZE-7MN144I
LC4064ZE-5MN64C	LC4064ZE-7MN64I
LC4064ZE-5TN100C	LC4064ZE-7TN100I
LC4064ZE-5UMN64C	LC4064ZE-7UMN64I
LC4064ZE-5TN48C	LC4064ZE-7TN48I
LC4128ZE-5MN144C	LC4128ZE-7MN144I
LC4128ZE-5TN100C	LC4128ZE-7TN100I
LC4128ZE-5TN144C	LC4128ZE-7TN144I
LC4128ZE-5UMN132C	LC4128ZE-7UMN132I
LC4256ZE-5MN144C	LC4256ZE-7MN144I
LC4256ZE-5TN100C	LC4256ZE-7TN100I
LC4256ZE-5TN144C	LC4256ZE-7TN144I

Product Family
Link to Datasheet

LatticeXP Family
[LatticeXP Family Data Sheet](#)

Commercial OPN	Industrial OPN
LFXP10C-4FN388C	LFXP10C-3FN388I
LFXP10C-5FN388C	LFXP10C-4FN388I
LFXP10E-4FN256C	LFXP10E-3FN256I
LFXP10E-5FN256C	LFXP10E-4FN256I
LFXP3C-4TN100C	LFXP3C-3TN100I
LFXP3C-4TN144C	LFXP3C-3TN144I
LFXP3C-5QN208C	LFXP3C-4QN208I
LFXP3C-5TN100C	LFXP3C-4TN100I
LFXP3E-4TN100C	LFXP3E-3TN100I
LFXP6C-4FN256C	LFXP6C-3FN256I
LFXP6C-4TN144C	LFXP6C-3TN144I

Product Family
Link to Datasheet

LatticeSC
[LatticeSC/M Family Data Sheet](#)

Commercial OPN	Industrial OPN
LFSCM3GA15EP1-6F900C	LFSCM3GA15EP1-5F900I
LFSCM3GA15EP1-6FN900C	LFSCM3GA15EP1-5FN900I