



## Product Change Notification

**Document #:** PCN-400823-01

**Change Title:** Cortina Systems, IXF19301, IXF19302, IXF19303, & IXF19325, BGA Substrate, Package Material, Top Marking and Pin 1 Orientation Change, FFF

**Revision Date:** 06 July 2010

### Type of Change Notification:

Form, Fit & Function (FFF)

### Key Characteristics of the Change:

Top Marking and Pin 1 Orientation Change

Package Material Change

### Forecasted Key Milestones:

<b>Samples from new assembly site available:</b>	Available Now
<b>Full process qualification report:</b>	Available Now
<b>Shipment of Malaysia COO products:</b>	28 April 2009

### Description of Change to the Customer:

**Revision-01 is to notify customers of two key differences for the IXF193xx from the assembly manufacturer, which was not captured in the original release of this PCN. Please see following tables for minor package dimension and top marking changes.**

Original – Cortina Systems, Inc. (Cortina) is in process of qualifying a new assembly site for the IXF193xx product family. Please see Affected Products Table below for the complete list of parts. The country of origin for the newest assembly site will be Malaysia.

Customers may receive products from either or both locations and should not expect to receive Malaysia COO units until the milestone dates shown (see table). We expect Malaysia to be our primary source of volume production.

## Customer Impact of Change and Recommended Action:

Depending upon assembly equipment, some customers may find it necessary to adjust the physical settings on pick and place machines or similar equipment. Customers may want to qualify the new BGA package substrate on their systems and be prepared to begin receiving revised devices per forecasted key milestones above. There will be no change to the product ordering code.

Please contact your local Cortina Sales Representative for further information regarding this PCN.

### Table 1 Minor Dimension Changes

Dimension	Before Change	After Change
Max. Package Thickness	1.53 mm +/-0.15 mm	1.513 mm +/-0.12 mm
BGA Solder Ball Height	0.45 mm ~0.65 mm	0.40 mm ~0.60 mm
BGA Solder Ball Diameter	0.55 mm ~0.75 mm	0.53 mm ~0.73 mm
BGA Package Size	45 mm x 45 mm	No Change

### Table 2 Top Marking and Pin 1 Orientation Change

Before Change Example:



After Change Example:



Line	Before Change	After Change
1	Cortina Logo	Cortina Logo
2	Product Name Description	Blank
3	Lot Trace Code Description	Product Name Description
4	FPO Code	FPO Code
5	Cortina(M)©2006	Country of Origin/(e1) <sup>1</sup>
6	Country of Origin	Blank
Pin 1 Orientation	Bottom Left Corner marked with Dot	Top Left Corner marked with Dot

<sup>1</sup> (e1) symbol indicates Pb-free package

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## Products Affected / Cortina Systems Ordering Codes:

Affected Family Name	Affected Product Code	Post-Affected Product Code	RoHS Compliance	Media Type
IXF19301	GCIXF19301EE.B1-885703	GCIXF19301EE.B1-885703	RoHS 5	TRAY
IXF19301	GCIXF19302EE.B1-885706	GCIXF19302EE.B1-885706	RoHS 5	TRAY
IXF19301	GCIXF19303EE.B1-885705	GCIXF19303EE.B1-885705	RoHS 5	TRAY
IXF19301	GCIXF19325EE.B1-885707	GCIXF19325EE.B1-885707	RoHS 5	TRAY
IXF19301	QCIXF19301EE.B1-998611	QCIXF19301EE.B1-998611	RoHS 6	TRAY
IXF19301	QCIXF19302EE.B1-998601	QCIXF19302EE.B1-998601	RoHS 6	TRAY
IXF19301	QCIXF19303EE.B1-998606	QCIXF19303EE.B1-998606	RoHS 6	TRAY
IXF19301	QCIXF19325EE.B1-998596	QCIXF19325EE.B1-998596	RoHS 6	TRAY

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## Revision History

<b>Revision 1.1</b> <b>Revision Date: 06 July 2010</b>
<ul style="list-style-type: none"><li>• Top Marking and Pin 1 Orientation Change</li><li>• Package Material Change</li></ul>
<b>Revision 1.0</b> <b>Revision Date: 23 March 2009</b>
Original Release

**Cortina Systems, Inc.**

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