

# Inform

## ECN Overview

### D3243-S

### Industrial Mainboard

ECN-No. SBOEM-D3243-060614

- Reason for ECN:
- Reduced component height for three capacitors
  - Improvement for power-on sequencing (ATX PSU)
  - Improvement for (very rarely) possible mains power-loss impact
- See next page for details!

Current Part No. / Revision	New Part No. / Revision
D3243-S12 / GS1	D3243-S12 / GS2

Shipping details: Shipment of the new HW revision is expected from July 2014

Released Operating Systems:

Mainboard Version	Win XP32/64	Win Vista	Win 7-32	Win 7-64	Win 8	Win 8.1-32	Win 8.1-64	Windows Server 2008 R2 (64)	Windows Server 2012 R2 (64)
D3243-S	---	---	X	X	---	---	X	--- <sup>1)</sup>	--- <sup>1)</sup>

1) Windows Server OS not tested and released on D3243-S, but due to driver compatibility to D3236-S (= released for Server OS) no issues expected!

**Intel highly recommends to use the latest released drivers when installing the "Haswell Refresh" processors.**

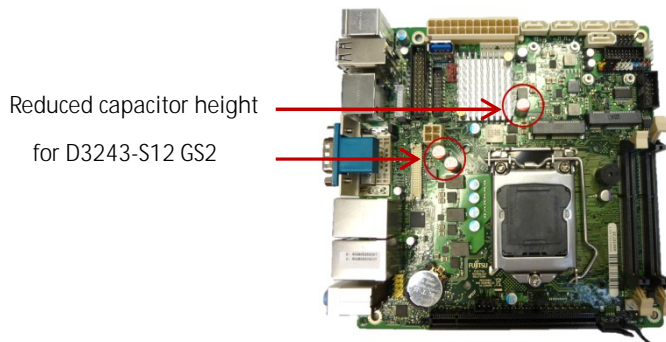
**These updated drivers are compatible with the previous "Haswell" processor series!**

[ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Products/Mainboards/Industrial&ExtendedLifetime/D323x-S/Drivers\\_D323x-S/](ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Products/Mainboards/Industrial&ExtendedLifetime/D323x-S/Drivers_D323x-S/)

Initial released BIOS for D3243-S: R1.17.0 (this version already includes support for Haswell Refresh processor series)

Industrial Mainboard D3243-S:

Mainboard	Version	Features	Reason for ECN	ECN Date
D3243-S	D3243-S12 GS1	iQ87 industrial mini-ITX	Initial Launch	03/2014
	D3243-S12 GS2		<ol style="list-style-type: none"> <li>Replace 3 capacitors (see picture below) by model with smaller housing in order to enable usage of non Intel-compliant industrial cooling solutions.            Note: Cooling solutions that comply to the Intel mechanical requirements for Haswell-based mainboards can be used w/o any impact. Affected capacitor height: GS1: 11 mm <math>\rightarrow</math> GS2: 8 mm. Capacity remains unchanged (=330<math>\mu</math>F).</li> <li>Improve Power-On behavior of ATX power supplies that are close to timing limits            Note: The mainboard monitors the PowerGood line of the ATX PSU. If this is not ok within 500ms (= limit according to ATX specification), the mainboards switches off the PSU and tries to restart it again (PSON line). This feature acts like a PSU power-on watchdog.            Some PSUs that are close to the limit of 500ms may fail with D3243-S. In order to improve this, the acceptable time window is enlarged to 600ms for GS2 mainboards (Update of mainboard internal firmware for power-on sequencing circuitry)</li> <li>Prevent rarely possible power-on impact after power-loss            The mainboard D3243 is designed to auto power-on (if selected in BIOS Setup) in any case whenever the operating power is connected. In order to avoid a (very rarely) possible loophole after mains power power-loss, a minor component change is implemented from GS2</li> </ol>	06/2014



Date	Revision Overview
06.06.2014	ECN D3243-S12 GS1 $\rightarrow$ GS2
03/2014	Launch D3243-S

Published by department  
 Systemboard OEM Sales

OEM FTP  
<ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/>

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<http://www.fujitsu.com/fts/products/computing/pc/accessories/mainboards/>

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