

Inform

ECN Overview

D3243-S

Industrial Mainboard

ECN-No. SBOEM-D3243-181214

Reason for ECN: - Updated LAN Firmware for second LAN Controller i210
 See next page for details!

Current Part No. / Revision	New Part No. / Revision
D3243-S12 / GS2	D3243-S12 / GS3

Shipping details: Shipment of the new HW revision is expected from February 2015

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	--- 1)	--- 1)

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!

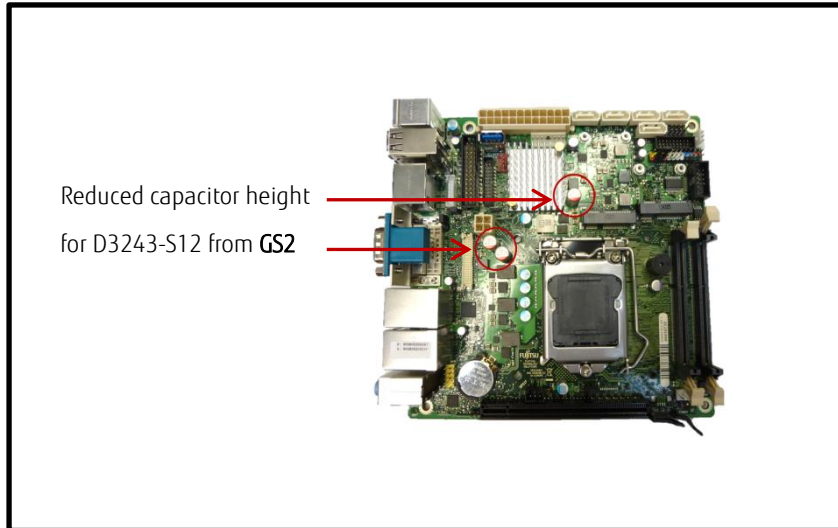
ftp://ftp.ts.fujitsu.com/pub/Mainboard-OEM-Sales/Products/Mainboards/Industrial&ExtendedLifetime/D323x-S/Drivers_D323x-S/

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		<p>1. Replace 3 capacitors (see picture next page) by model with smaller housing in order to enable usage of non Intel-compliant industrial cooling solutions.</p> <p>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 → GS2: 8 mm. Capacity remains unchanged (=330µF).</p> <p>2. Improve Power-On behavior of ATX power supplies that are close to timing limits</p> <p>Note: The mainboard monitors the <i>PowerGood</i> 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.</p> <p>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)</p> <p>3. Prevent rarely possible power-on impact after power-loss</p> <p>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</p>	06/2014
	D3243-S12 GS3		Improved LAN firmware (V0.83) for i210 LAN controller. ¹⁾	12/2014

- 1) Possible sporadic issue with previous LAN firmware:
 Second LAN not found (LAN not visible in PCI configuration space; LAN not visible in Windows device manager).
 Updated firmware prevents LAN-internal PLLs from not starting correctly.
 Further change: Setting for "Serial Number Capability" changed to *disabled*.
 Result: When swapping the mainboard, windows does not detect a new LAN connection → Previous LAN settings like IP are kept.
 Note: For the first LAN controller (i217) "Serial Number Capability" was already set to *disabled*.



Date	Revision Overview
19.12.2014	ECN D3243-S12 GS2 → GS3 (LAN FW)
06.06.2014	ECN D3243-S12 GS1 → GS2
03/2014	Launch D3243-S

Published by department
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