

PCMB INFORMATION

Discontinuation of FAN3 “3 wire” fan speed control mode

Version: V1.1

Content

PCMB INFORMATION	1
<i>Details regarding depopulated parts</i>	<i>2</i>
<i>Affected Boards:</i>	<i>2</i>
<i>BIOS</i>	<i>2</i>
<i>Operating System</i>	<i>2</i>
<i>Hardware change details</i>	<i>3</i>
<i>Block Diagram</i>	<i>3</i>

Details regarding depopulated parts

Reason:

Due to serious supply shortage of voltage regulator ST Micro LT5983LTR (Kontron part number: V26811-B844-V40) and meanwhile unjustable prices offered by brokers we will remove "3 wire" FAN regulation on all boards with "3 wire" FAN mode support. See [Affected Boards](#) section.

A "3 wire" FAN will operate at *full speed* with that modification. The function of "4 wire" FAN (PWM fan) is not influenced from that decision and working as specified and still as to be expected.

For that reason the usage of 4-pin PWM system fans is the most suitable work around just in case a 3-pin 12V fan is used in your application.

Affected Boards:

Only newly produced motherboards are affected:

Haswell:	D3236-Sx, (D3231-Sx, D3243-Sx)*
AMD G-Series:	D3313-S1, -S2, -S3, -S4, -S6 (-S5, -V6)*
Intel Skylake IND:	D3433-S1, D3446-S1 (D3434-S1, D3441-S1)*
Intel Kabylake IND:	D3433-S2, D3434-S2, D3441-S2, D3446-S2

*: Boards in brackets are already EOL and will not be manufactured anymore.

Please check the latest PCN documents on FTP server to see the exact version/revision of boards without "3 wire" FAN support.

BIOS

There will be no special BIOS version for boards with removed "3 wire" FAN regulation support. The corresponding BIOS option does not have any influence on these boards, even if you configure it to "3 wire"

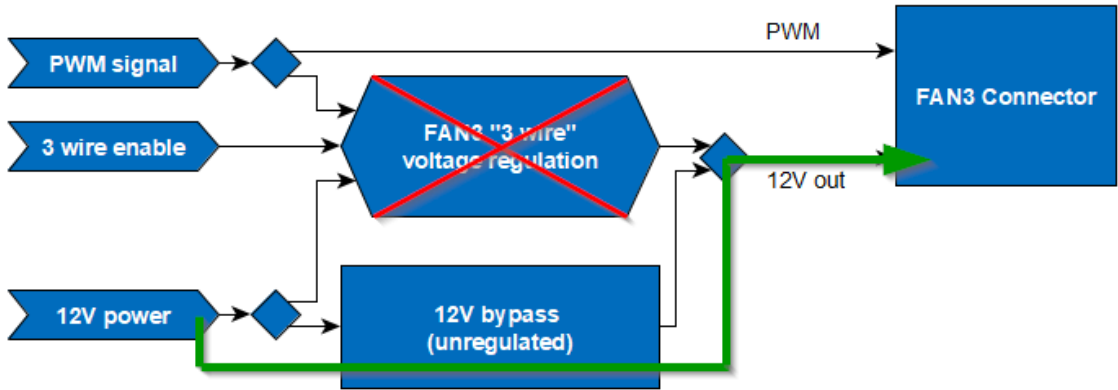
- ✓ [Advanced > System Management > "FAN 3 Wiring"] -> set to "4 wires" (default)

Operating System

There is no influence on operating systems. Also no influence on SystemManagement control chip.

Hardware change details

Block Diagram



12V power is now directly connected (via bypass) to FAN3 connector (green line). Voltage regulator circuit is depopulated.