



TECHNICAL NOTE

PRODUCT	Myk-X30
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REVISION	Rev. D
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SERIAL NUMBER	100000-100204
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MYK-X01

APPLICATION	Pyramix
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PROBLEM DESCRIPTION	
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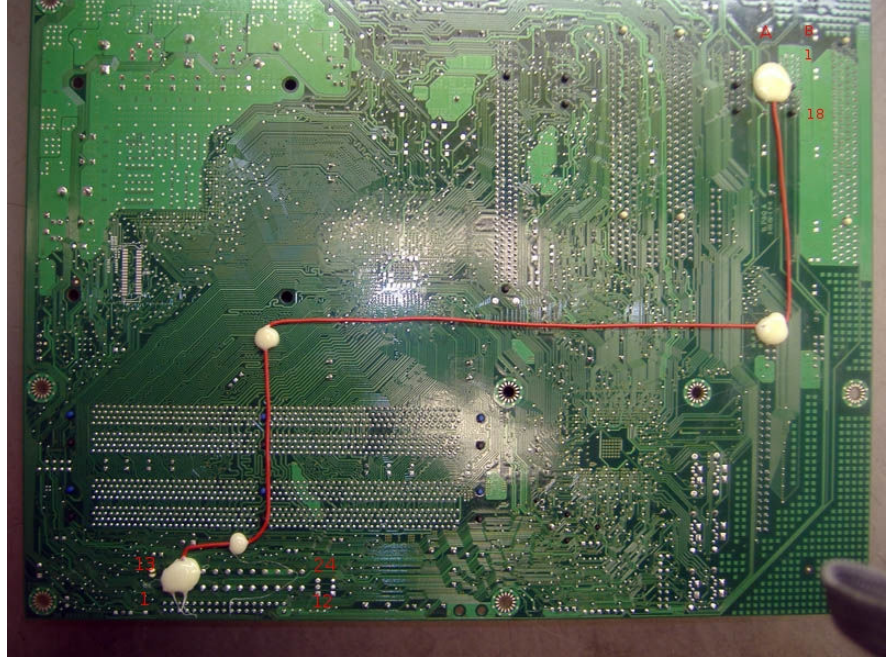
	<p>Due to poor layout of 3.3V traces (with too high resistance) on certain PC motherboards, peaks of current on 3.3V power supply drawn off the PCIe slot(s) may result in significant voltage drop (close to 300 mV),. With residual voltage supply close to 3V (instead of the specified 3.3V) the primary switching voltage regulator of the MYK-X30 board does enter in short-circuit protection mode. Consequently such boards are not seen anymore by the PC, and will need a complete shutdown of the PC.</p>
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SYMPTOMS	
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	<p>The VS3 message "DSP x does not start" can appear when launching Pyramix, or Pyramix software can hang while in use. To be sure the problem occurring is due to a card loss, the user can launch the dvpMonMT utility, located in "C:\Program Files\Common Files\Merging Technologies\Nexperia" path. In the little box named "PCI" on bottom left, there should be no card available.</p> <p>Until now, this problem has only been observed on Intel D945PVS and Intel DP965LT motherboards and is aggravated by the use of an ATI X700 graphics adapter on such boards.</p>
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SOLUTION

The most effective solution is to provide a lower resistance path to supply the 3.3V pin of the motherboard's PCIe connector. This can best be accomplished by soldering a small wire directly from the power supply (24 pin ATX connector pin 1, 2, 12 or 13) and a 3.3V pin of one of the PCIe connector (pin 9 and 10 on side A and pin 8 on side B).



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DATE

27 October 2006