



Document Name D100 Version Notes	System D100	Developed for General Distribution
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11/1/2007 FPGA 3.5.02 PIC 3.0P

Problem/Feature	Module	Description
Initial release.		

12/19/2007 FPGA 3.5.03 PIC 3.0Q

Problem/Feature	Module	Description
Weak pull-ups should be removed from port B.	PIC	Weak pull ups have been removed.
The MULL register was not being properly protected during the high priority interrupt.	PIC	Fixed. This probably had no effect on the operation of prior versions.
Current measurement.	FPGA PIC	The current measurement feature has been added, along with appropriate setups.
Saturation report.	FPGA PIC	The D100 now reports the number of saturated pulses.

1/03/2008 FPGA 3.5.03 PIC 3.0R

Problem	Module	Description
The "beacon message" bug needs to be applied to this version.	PIC	The fix has been applied to prevent unpredictable results that might be caused by the bug.

1/7/2008 FPGA 3.5.03 PIC 3.0S

Problem	Module	Description
The communication lock-up fix reported for the I200 needs to be applied.	PIC	This has been traced to a communications state-machine problem which caused the device's communications to lock up under some circumstances. This problem has been fixed by clearing the interrupt flag immediately after a message is read out of the FPGA buffer by the PIC.

1/28/2008 FPGA 3.5.06 PIC 3.0T

Problem	Module	Description
A new discriminator is needed in order to screen out noise pulses.	FPGA PIC	A discriminator has been added named Pulse Threshold. This is the minimum height (binary) that a pulse must attain in order to be considered. The ASCII command equivalent is K:PT. The default value at boot-up is 6.
The ShapingSamples parameter is obsolete.	PIC	This parameter has been removed.
The input counts are not accurately accounted for.	FPGA	This problem has been corrected.
The I/O poll message needs to return count rates for the DSP poll	PIC	The I/O message now reports counts in the same format as the ReadCounts command.