FibreXtreme®

TECHNICAL NOTE 4022

Letter of Volatility for SL100/SL240 Cards

Introduction

This TECHNOTE answers the following questions concerning memory on FibreXtreme SL100/SL240 cards.

1. What kinds of memory are in the device?

2. How much memory does the device have?

3. Is the memory volatile or non-volatile?

4. Is the memory user assessable?

5. How can the memory be cleared?

Discussion

Information concerning the memory on the FibreXtreme SL100/SL240 cards is described below. The order numbers this information applies to are listed in the Order Numbers section.

Memory Size	Memory Type	Volatile/Non-Volatile	Contains User Data
16 MB	Flash	Non-volatile	No
128 MB	DDR	Volatile	Yes

The 16 MB Flash EEPROM contains the firmware code for the card. It can be written to using Curtiss-Wright Controls' slprog utility or Xilinx's JTAG programming utility. It is not in the data path and there is no way to write-protect the chip.

The 128 MB DDR is cleared of the user data by power cycling the card.

Transceivers

The transceiver(s) provided with the SL100/SL240 products may contain non-volatile storage. There is no hardware or software means present on any of the SL100/SL240 products that would allow access to this storage. Therefore, the transceiver's non-volatile storage is not user accessible while installed in the SL100/SL240. However, in the case of removable transceivers provided with certain SL100/SL240 products, it is possible that these transceivers may be removed from these products and placed into systems that may provide access to the non-volatile storage. In this case, it is the user's responsibility to ensure that access to this storage is controlled in a manner consistent with the user's policies. Reference the transceiver manufacturer's datasheet for more information.

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Order Numbers

Table 1: 33 MHz SL100 PMC

Order Number	Description
FHK5-PM4MWB04-00	SL100 PMC, 850 nm SFP laser, 5 V PCI signaling voltage
FHK5-PM4MWB04-R1	Rugged Level 1 SL100 PMC, 850 nm laser, 5 V PCI signaling voltage
FHK5-PM4MWB04-R2	Rugged Level 2 SL100 PMC, 850 nm laser, 5 V PCI signaling voltage

Table 2: 33 MHz SL100 PCI

Order Number	Description
FHK5-PC4MWB04-00	SL100 PCI, 850 nm SFP laser, 5 V PCI signaling voltage

Table 3: 66 MHz SL100 PMC

Order Number	Description
FHF5-PM4MWB04-00	SL100 PMC, 850 nm SFP laser, 3.3 V PCI signaling voltage
FHF5-PM4MWB04-R1	Rugged Level 1 SL100 PMC, 850 nm laser, 3.3 V PCI signaling voltage
FHF5-PM4MWB04-R2	Rugged Level 2 SL100 PMC, 850 nm laser, 3.3 V PCI signaling voltage

Table 4: 66 MHz SL100 PCI

Order Number	Description
FHF5-PC4MWB04-00	SL100 PCI, 850 nm SFP laser, 3.3 V PCI signaling voltage

Table 5: SL100 FPDP

Order Number	Description
FHK4-FM4MWB04-00	SL100 CMC, 850 nm laser
FHK4-FM4MWB04-R1	Rugged Level 1 SL100 CMC, 850 nm laser
FHK4-FM4MWB04-R2	Rugged Level 2 SL100 CMC, 850 nm laser

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Table 6: 33 MHz SL240 PMC

Order Number	Description
FHK7-PM6MWB04-00	SL240 PMC, 850 nm SFP laser, 5 V PCI signaling voltage
FHK7-PM6MWB04-R1	Rugged Level 1 SL240 PMC, 850 nm laser, 5 V PCI signaling voltage
FHK7-PM6MWB04-R2	Rugged Level 2 SL240 PMC, 850 nm laser, 5 V PCI signaling voltage

Table 7: 33 MHz SL240 PCI

Order Number	Description
FHK7-PC6MWB04-00	SL240 PCI, 850 nm SFP laser, 5 V PCI signaling voltage

Table 8: 66 MHz SL240 PMC

Order Number	Description
FHF7-PM6MWB04-00	SL240 PMC, 850 nm SFP laser, 3.3 V PCI signaling voltage
FHF7-PM6MWB04-R1	Rugged Level 1 SL240 PMC, 850 nm laser, 3.3 V PCI signaling voltage
FHF7-PM6MWB04-R2	Rugged Level 2 SL240 PMC, 850 nm laser, 3.3 V PCI signaling voltage

Table 9: 66 MHz SL240 PCI

Order Number	Description
FHF7-PC6MWB04-00	SL240 PCI, 850 nm SFP laser, 3.3 V PCI signaling voltage

Table 10: SL240 FPDP

Order Number	Description
FHK6-FM6MWB04-00	SL240 CMC, 850 nm laser
FHK6-FM6MWB04-R1	Rugged Level 1 SL240 CMC, 850 nm laser
FHK6-FM6MWB04-R2	Rugged Level 2 SL240 CMC, 850 nm laser