

# USB104 A7 Statement of Volatility

Revision B.2



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This document lists the location, purpose, capacity, volatility and (re)programmability of memory devices that may be installed on the USB104A7 (DPN: 210-398). The terms programmable and erasable refer to normal means of access available to the public. It does not include reverse-engineering or any other attempts to extract data from these devices. The content of this document is provided for information purposes only.

## Volatile memory

IC	Memory Purpose	User programmable	User removable	Size	Reset procedure
USB2512B-I/M2	Registry set for USB controller	Yes	No	256B	Remove power for 60 seconds
XC7A100T-1CSG324I	Configuration data for internal latches	Yes	No	30,606,304b	Remove power for 60 seconds
XC7A100T-1CSG324I	Block RAM	Yes	No	4320Kib	Remove power for 60 seconds
XC7A100T-1CSG324I	Distributed RAM	Yes	No	1100Kib	Remove power for 60 seconds
MT41K256M16TW-107 IT	DDR3 SDRAM	Yes	No	4Gb	Remove power for 60 seconds
TPS65400RGZ	Registry set for power management unit	Yes	No	256B	Remove power for 60 seconds
MT41K256M16TW-107 IT	DDR3 SDRAM	Yes	No	4Gb	Remove power for 60 seconds
ATmega328PB-AU	Register set & internal SRAM	Yes	No	2303B	Remove power for 60 seconds

## Non-volatile memory

IC	Memory Purpose	Technology	User programmable	User removable	Size	Reset procedure
93LC56BT-I/OT	USB ID and Configuration	EEPROM	Yes	No	2KiB	None
S25FL128SAGNFI00	FPGA configuration and data storage	FLASH	Yes	No	128Mib	Electrically erasable; Use iMPACT or Vivado Software Tools available from Xilinx
ATmega328PB-AU	8 bit AVR Program Memory	FLASH	Yes	No	32KiB	Use atmel programmer connected to J4 to erase
ATmega328PB-AU	8-bit AVR EEPROM	EEPROM	Yes	No	1KiB	Use atmel programmer connected to J4 to erase

FT232HQ	USB to parallel FIFO interface configuration	EEPROM	Yes	No	256B	Use FT_Prog.exe from FTDI to erase
FT2232HQ	USB to serial JTAG/UART configuration	EEPROM	Yes	No	256B	Use FT_Prog.exe from FTDI to erase
TPS65400RGZ	Startup Register Configuration	EEPROM	Yes	No	256B	Send 0x11 command over PMBus