Nexys Video™ Statement of Volatility

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This document applies to the Nexys Video rev. A.X

This document lists the location, purpose, capacity, volatility and (re)programmability of memory devices that may be installed on the Nexys Video (SKU: 410-316). 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
MT41K256M16HA-125 or MT41K256M16HA-107 or A3T4GF40ABF-GML	DDR3 Program / Data memory	Yes	No	4 Gib	Remove power for 60 seconds
XC7A200T-1SBG484	Configuration data for internal latches	Yes	No	77845216 bits	Remove power for 60 seconds
XC7A200T-1SBG484	Block RAM	Yes	No	13140 Kib	Remove power for 60 seconds
XC7A200T-1SBG484	Distributed RAM	Yes	No	2888 Kib	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	2 KiB	Electrically erasable from applications like FTDI's FTProg; Digilent's private application can restore factory functionality
S25FL128SAGMFI00	FPGA configuration and data storage	FLASH	Yes	No	128 Mib	Electrically erasable; Use iMPACT or Vivado Software Tools available from Xilinx
24AA025E48	Ethernet MAC Address	EEPROM	Yes/no	No	2 KiB	Lower half (00h-80h) can be programmed through I2C through the FPGA as per Microchip's 24AA025E48 datasheet, the upper half of memory is permanently write protected.
PIC24FJ128GB106-I/MR	USB embedded HID Host application	FLASH	Yes	No	64 KiB	User programmable through Microchip's MPLAB software with an external Microchip programmer
FT232RQ-R	USB ID and Configuration	EEPROM	Yes	No	1024 bit	Electrically erasable from applications like FTDI's FTProg; Digilent's private application can restore factory functionality