

TB218 (Rev4) - Uni-console Component Changes

Purpose:

This document outlines when major component changes have taken place in the Centroid Uniconsole-2 console on CNC10 and CNC11 systems from April 2004 to the present. One can be better prepared before traveling on site to troubleshoot a system.

LCD Monitor Changes:

Note: Changes in LCD manufacturers results in internal sheet metal changes in order to accommodate the mounting of the new LCD screen which also affects the rest of the internal sheet metal in the console.

LCD Mfg.	Model No.	Start Date	Stop Date
LG			4/17/2007
Sharp	lq150x1lg41	4/17/2007	5/7/2007
AU Optronics	M150XN07	5/7/2007	9/21/2010
LG	LB150X02	9/21/2010	12/2/2010
AU Optronics	G150XG03	12/2/2010	3/30/2015
LG Phillips	LM150X08	3/30/2015	

Motherboard Changes:

MB Mfg.	Model No.	CPU Type	RAM Type	Centroid CPU	Start Date	Stop Date	Comments
MSI	MS6368L	Celeron	PC100/133 SDRAM	CPU7/CPU9	10/07/2002	04/30/2004	ISA MB for DOS systems. Can run up to v2.36 software with a RAM upgrade of 128 or 256MB. Not compatible with Linux v2.6x or higher software.
Soyo	SY-7VEM/ SY-7VEMPRO	Celeron	SDRAM	CPU7/CPU9	03/18/2004	06/04/2004	ISA MB for DOS systems after the MSI 6368L was no longer available. Needs ATXPWR board to power MB.
Biostar		Celeron	SDRAM	CPU7/CPU9			Replacement MB for systems with ISA motion cards. Does not support Linux software.
MSI	P4MAM-V(MS-6787)	Celeron	DDR 200/266 up to 2GB	CPU10(B)	05/14/2004	12/23/2005	Issues with the heat sink bracket breaking due to too much stress. Shipped w/ 128MB RAM. Will run up to v2.36. Requires 1GB RAM to run v2.6x or higher.

MB Mfg.	Model No.	CPU Type	RAM Type	Centroid CPU	Start Date	Stop Date	Comments
MSI	PM8M-V	Celeron	DDR 400 up to 2GB	CPU10(B)			Issues with the heat sink bracket breaking due to too much stress. Requires 1GB RAM to run v2.6x or higher.
MSI	K8MM3-V	AMD	DDR 266/333/400 up to 2GB	CPU10(B)	12/13/2006	2/27/2007	Shipped w/ 256MB RAM. Will run up to v2.36. Requires 1GB RAM to run v2.6x or higher.
MSI	K9VGM-V(MS-7253)	AMD AM2	DDR2 400/533/667/800 up to 2GB	CPU10(B)	2/27/2007	4/23/2008	*First MB to start using 300W ATX PS. Stopped using star washers on MB because they were causing the MB to overheat.(07/06/2007) Started using lift kit to put more space between PS and MB.(08/31/2008) Shipped w/ 512MB RAM. Will run v2.6x or higher.
MSI	K9N6SGM-V	AMD AM2	DDR2	CPU10(B)	4/23/2008	5/16/2008	Won't run on software below v2.6x. Gets Grub 18 errors w/ 4GB FC or higher.
Gigabyte	GA-M61SME-S2	AMD AM2	DDR2	CPU10(B)	5/16/2008	09/08/2008	Shipped w/ 1GB RAM. Will run v2.6x or higher.
Gigabyte	GA-M61PME-S2	AMD AM2	DDR2	CPU10(B)	09/08/2008	05/01/2009	Shipped w/ 1GB RAM. Will run v2.6x or higher.
Gigabyte	GA-M61PME-S2P	AMD AM2	DDR2	CPU10(B)	05/01/2009	03/04/2010	Shipped w/ 1GB RAM. Will run v2.6x or higher.

MB Mfg.	Model No.	CPU Type	RAM Type	Centroid CPU	Start Date	Stop Date	Comments
Gigabyte	GA-M68M-S2P	AMD AM2	DDR2	CPU10(B)/MPU11	03/05/2010	10/3/2011	Shipped w/ 1GB RAM CPU10, 2GB RAM for MPU11 systems. Will run v2.6x or higher. USB chipset changed. For v2.38 and below, USB will not work. Requires software upgrade to v2.6x.(09/2010)
Gigabyte	GA-M68MT-S2P	AMD AM3	DDR3	CPU10(B)/MPU11	10/3/2011	6/7/2012	Shipped w/ 2GB RAM. Does not have IDE connector. Requires SATA SSD.
ASUS	M4N68T-M V2	AMD AM3	DDR3 1600 or 1800	CPU10(B)	10/26/2011	12/31/2011	Shipped w/ 2GB RAM (replacement MB for CPU10B systems or replacement servo PC's and M400 CPU10B consoles)
Gigabyte	GA-78LMT-S2P	AMD AM3	DDR3	CPU10(B)/MPU11	6/7/2012	3/4/2014	Shipped w/ 2GB RAM. Does not have IDE connector. Requires v2.73rxx for OpenSuse11.2.
Gigabyte	F2A55M-HD2	AMD FM2+	DDR3	CPU10(B)/MPU11	3/4/2014	10/5/2014	Shipped w/ 4GB RAM. Requires v2.73rxx for OpenSuse11.2.
Gigabyte	H81M-S2PV	Intel LGA 1150	DDR3	CPU10(B)/MPU11	10/5/2014		Shipped w/ 4GB RAM. Requires v2.73rxx for OpenSuse11.2.

Console Configuration Notes and Changes:

Date	Configuration Notes and Changes
	FC readers were mounted under the MB on all ISA MB PC setups. PCI MB had the FC reader move to a card slot above the MB.
	Original Uniconsoles w/ angled back required the PC to have the ATXPWR card to power the LCD screen.
	All ISA motherboards mounted in a console used the right angle adapter board to interface with the CPU7 motion card.
9/21/2005	With the release of v1.27 software, started putting the USB I/O panel on the consoles and removed the floppy drive.
12/22/2005	CPU10B's released which require software version v1.51 or higher to run.
3/2007	Console jog panel cables changed from single cable to the two ribbon cable setup with the DB15 connectors.
2/17/2010	Mounted the MicroATX PS to the console wrap. Removed the MB cover plates.
6/7/2012	Ethernet chipset incompatible with Linux. Installed additional PCI-Express NIC board.

	CNC11 Systems Installed SSD and LCD controller board onto sheet metal above the MB. Removed the MB wrap.
9/19/2011	Started using 500W ATX PS.
3/30/2015	LG Phillips touch screens are standard.

Document History

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