

Future Electronics Intelligent Solutions For

IS ImageStream Internet Solutions

http://www.imagestream.com/
Selma, Texas

WiFi AP / Router June 2, 2020



Michael.Leung@FutureElectronics.com

Imagestream Team

Scott Yoder, syoder@imagestream.com
Josh Snyder, josh@imagestream.com

<u>Carlos.Martinez@FutureElectronics.com</u>, Strategic Account Manager

<u>Puspa.Kunwor@FutureElectronics.com</u>, Applications Engineer

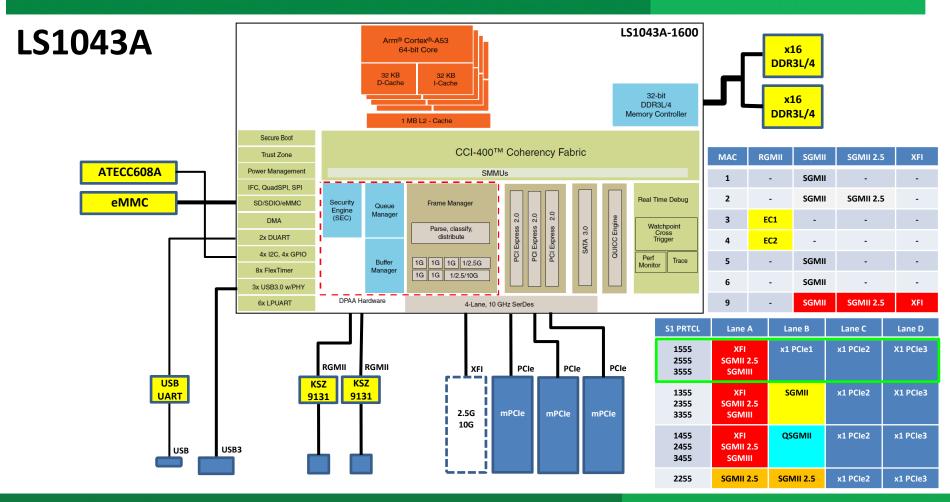
<u>Erwin.Wolniewitz@FutureElectronics.com</u>, Regional Sales Manager, Future Intelligent Solutions

<u>Michael.Leung@FutureElectronics.com</u>, Networking Specialist, Future Intelligent Solutions

Requirements

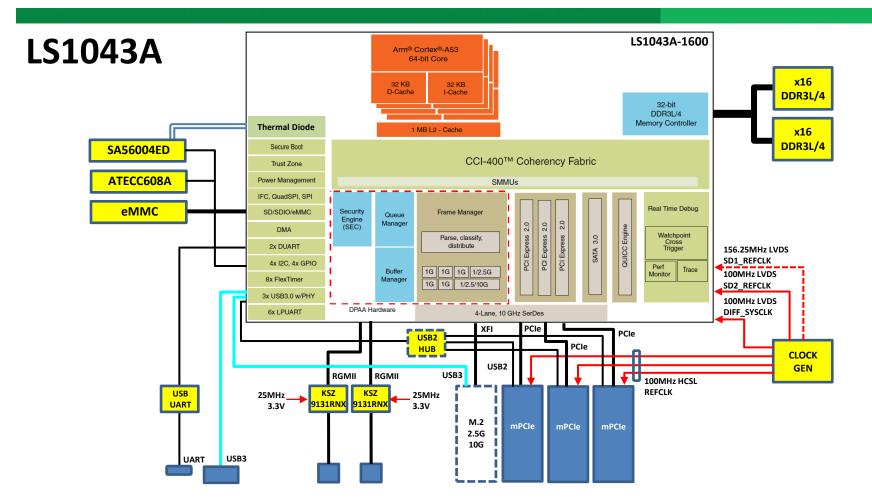
- SFP+
- 2.5G PoE (802.at)
- GigE
- 2 mPCle to 3 mPCle
- 1 GB DDR to 2GB
- Unique ID, to generate unique password per device
- WiFI Modules
 - 88w9064
 - 88w8964
- OpenWRT
- Open vSwitch





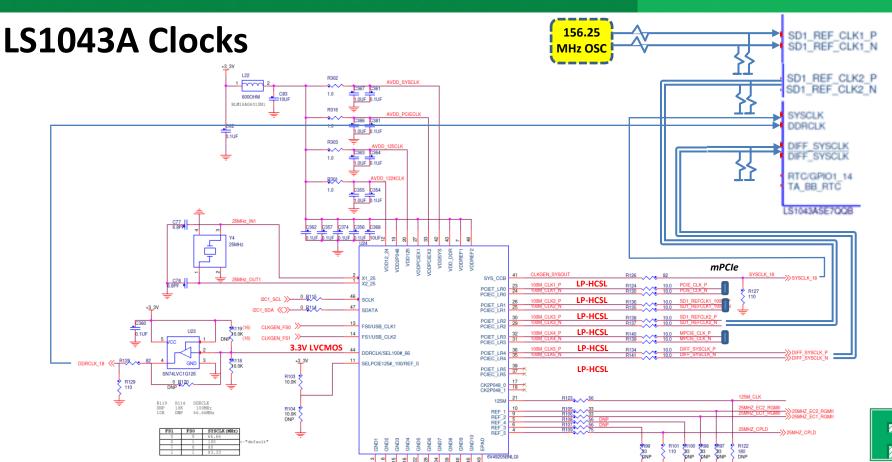
Design Details







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MFR	Qty	Devices (all commercial Temp)	Description	Stuffing Option
NXP	1	LS1043ASN7KQB LS1043ASN7MQB LS1043ASN7PQB LS1043ASN7QQB	LS1043A-1000, DDR-1600, (use ASE if crypto rqd) LS1043A-1200, DDR-1600, (use ASE if crypto rqd) LS1043A-1400, DDR-1600, (use ASE if crypto rqd) LS1043A-1600, DDR-1600, (use ASE if crypto rqd)	
Kingston	1	EMMC04G-M627	4GB eMMC	
Alliance Memory Alliance Memory Kingston Kingston	2	AS4C512M16D3LC-12BCN AS4C512M16D3L-12BCN D2516ECBDXGGGB-U B5116ECMDXGGB-U	4Gbit DDR3L (256Mx16)-1600 8Gbit DDR3L (512Mx16)-1600 4Gbit DDR3L (256Mx16)-1600 8Gbit DDR3L (512Mx16)-1600	
Alliance Memory Kingston Samsung		AS4C256M16D4-93BCN D2516ACPCXGPH-U K4A8G165WC-BCRC	4Gbit DDR4 (256Mx16)-2400 4Gbit DDR4 (256Mx16)-2400 8Gbit DDR4 (512Mx16)-2400	
Microchip	1	ATECC608A-TFLXTLSU	Secure Element (TrustFlexTLS Provisioned) UDFN	
Microchip	2	KSZ9131RNX	RGMII GigE PHY	
NXP Onsemi	1	SA56004AD ADM1032ARZ	Remote and Local Thermal Monitor (± 1°C)	
FTDI Microchip	1	FT230XQ MCP2200-I/MQ	USB UART	
Microchip	1	USB2513B/M2 USB2514B/M2	3-port USB2 Hub 4-port USB2 Hub	Optional
Renesas/IDT	1	6V49205BNLGI	Clock Generator	
Renesas/IDT	1	XUN515156.250000	156.25MHz HCSL Osc, Pin 1 Enb, 1.8V, 50ppm, 400fs,5x3mm	Optional
	3		mPCle Socket	
	1		M.2 Socket	Optional







