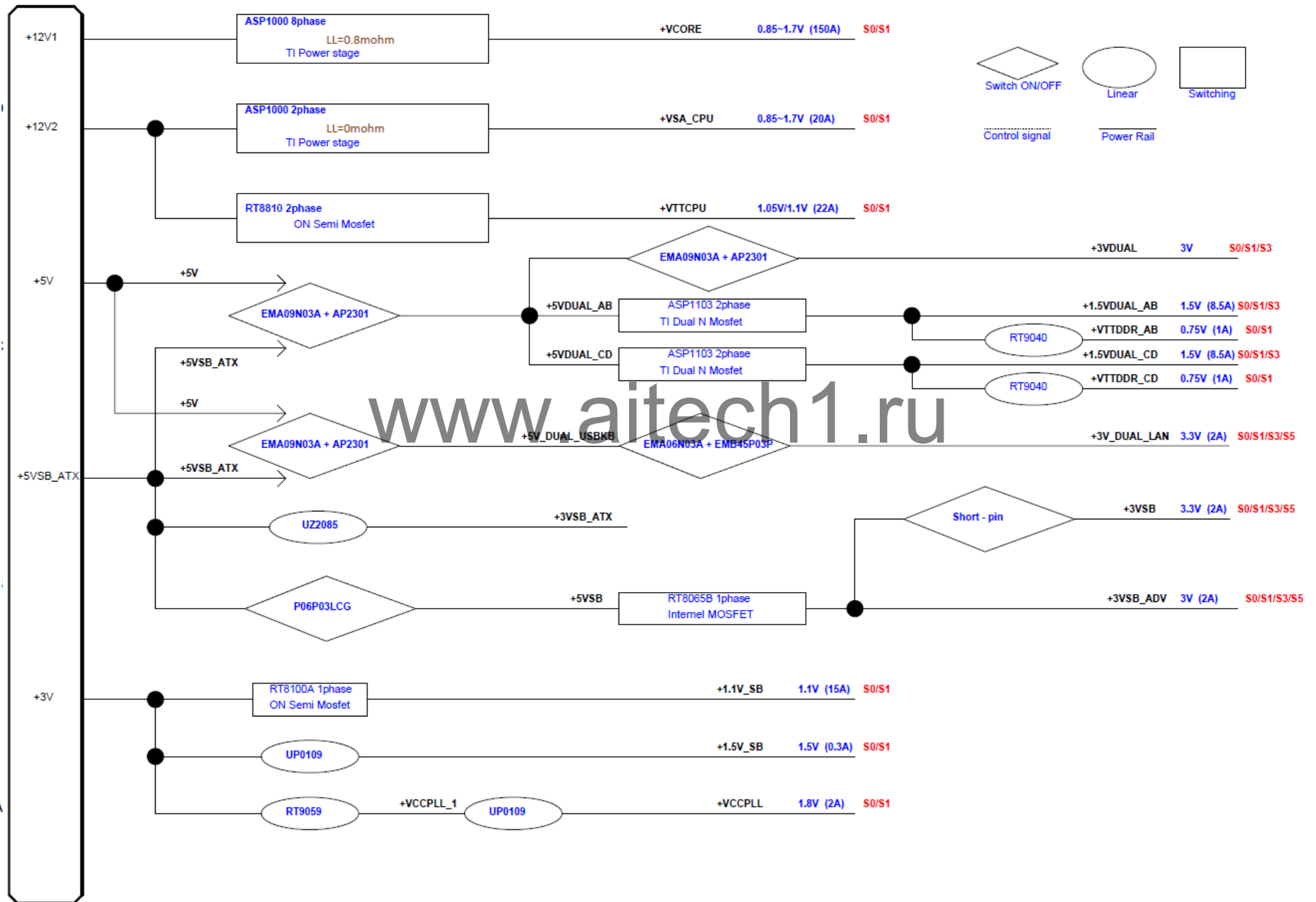


X79-DELUXE

The diagram illustrates the system architecture centered around the Intel Sandy Bridge-E processor (LGA-2011 Pin Socket). The processor is connected to various components through multiple interfaces:

- Memory:** Four DDR3 memory slots are connected via four channels (Channel A, B, C, D), each supporting up to 24GB (DDR3 1066/1333/1600/1866/2133/2400).
- Storage:** SATA ports (SATA0 Gen3, SATA1 Gen3, SATA2, SATA3, SATA4, SATA5) are connected via SATA BUS. iSATA ports are connected via ASM1061 controller. External storage is supported via PESATA (2 External Ports) and USB3.0 (Front 2 ports, Back 2 ports, Back 4 ports) using ASMedia controllers.
- Networking:** LAN 1 (Intel Lewisville 10/100/1000) and LAN 2 (Realtek 8111GR 10/100/1000) are connected via PCI-E x1 and SMBUS. SIO NCT6791D is connected via LPC BUS.
- Audio:** Audio Codec Realtek ALC1150 is connected via 24MHz interface.
- USB:** High-Speed USB 12 ports are connected via 480Mb/s interface.
- Expansion:** PCI-E X16 SLOT1 (X16), PCI-E X16 SLOT2 (X8), PCI-E X16 SLOT3 (X4), and PCI-E X16 SLOT4 (X16/X8) are available. iSATA 4 ports are connected via Marvell 9230 controller.
- Other Components:** VRD 12 on Board, ITP, SPI FLASH 32Mb, and two CLOCK GEN ICS units (ICS932SQ428AKLF and ICS9FGL1218AKLF) are shown.

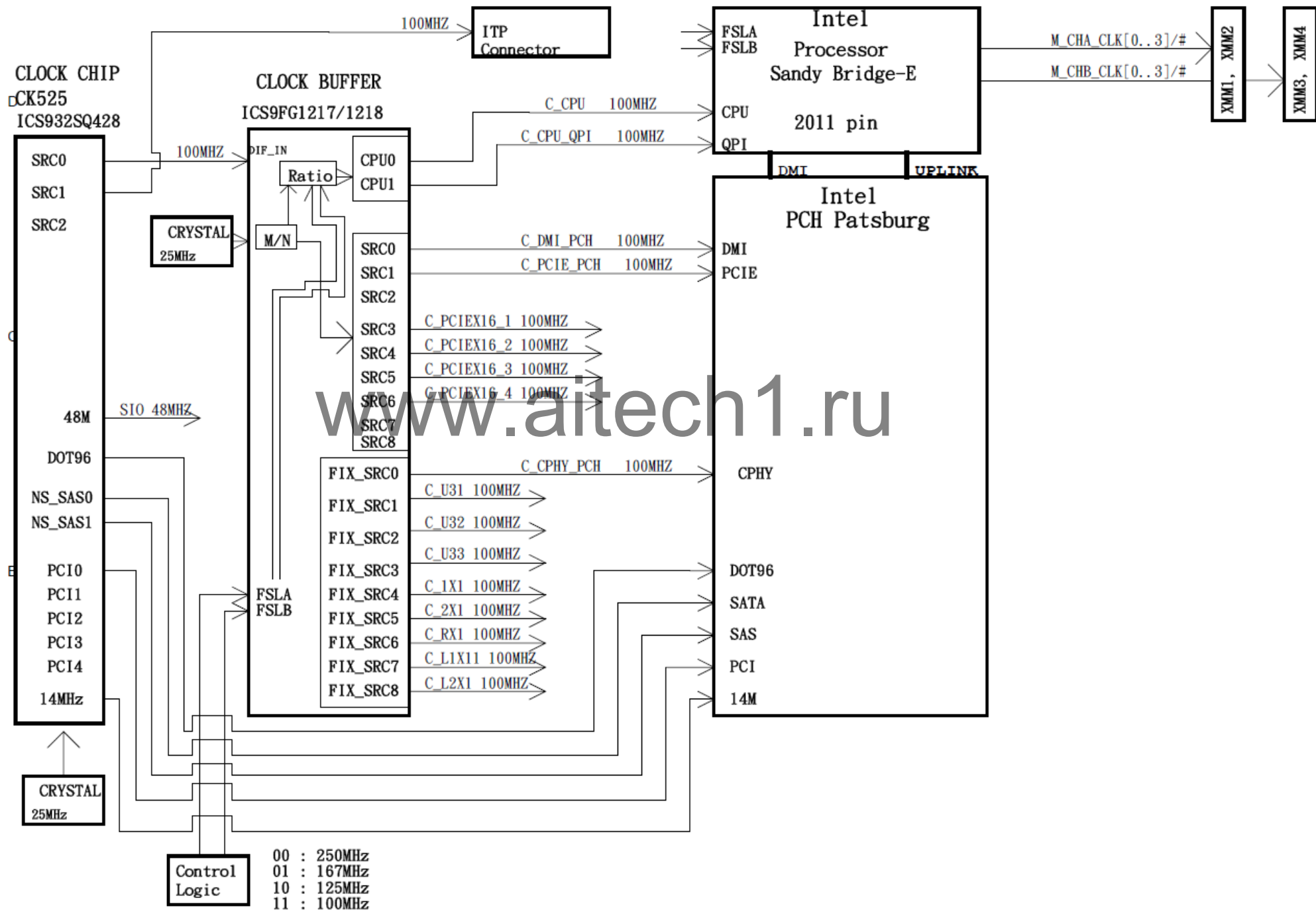
POWER FLOW



SUSB#	<9>SLP_S3#	SLP_S3#	PROCUPWRGD	<16>CPUPWRGD
	<11>SLP_A#	SLP_A#		
VID[0..7]	<7.12>SLP_LAN#	SLP_LAN#	DPWROK	<4.13>DSW_Power
		SYS_PWROK		



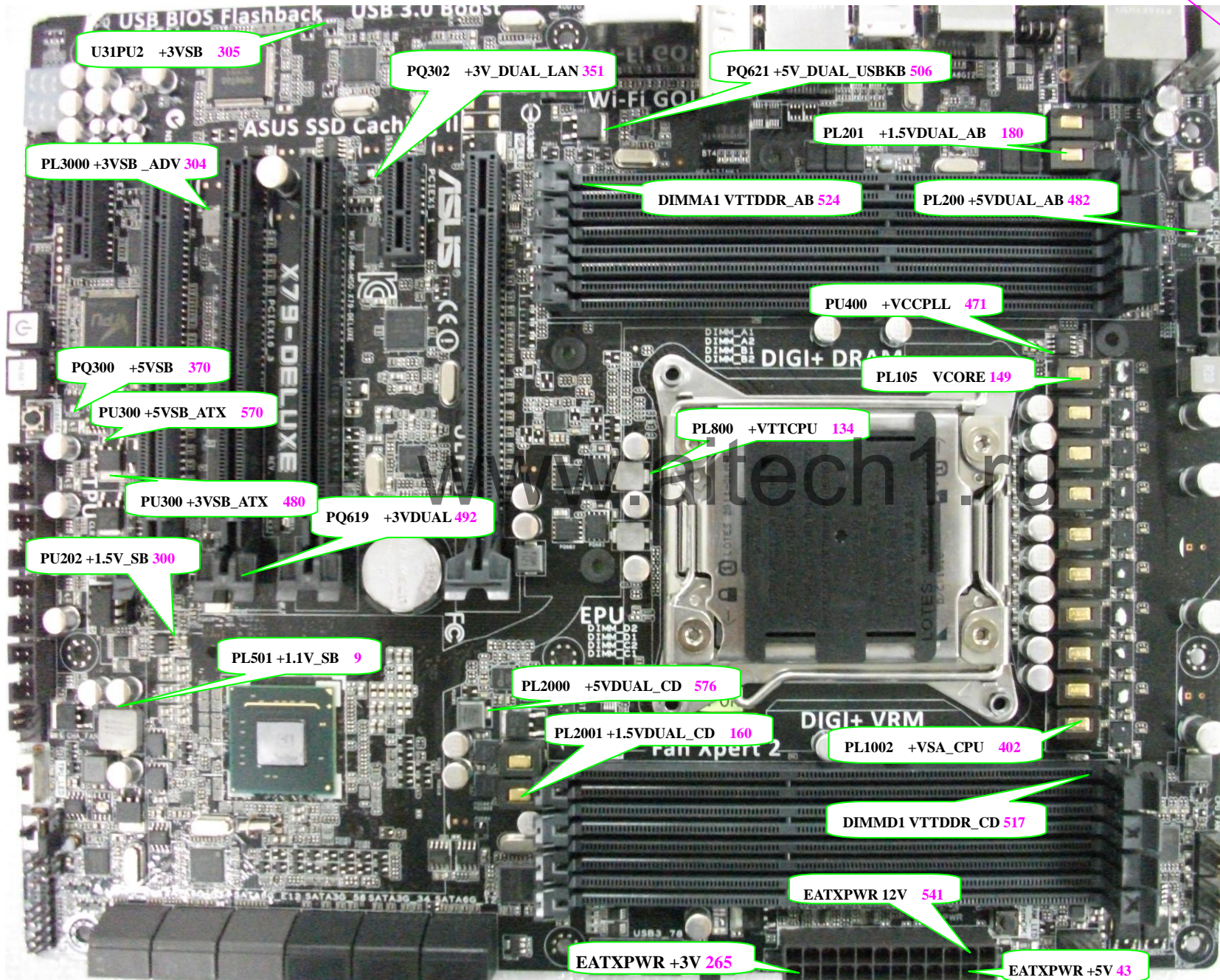
SRC5	C_PCIE16_3 100MHZ	→
SRC6	C_PCIE16_4 100MHZ	→
SRC7		
SRC8		



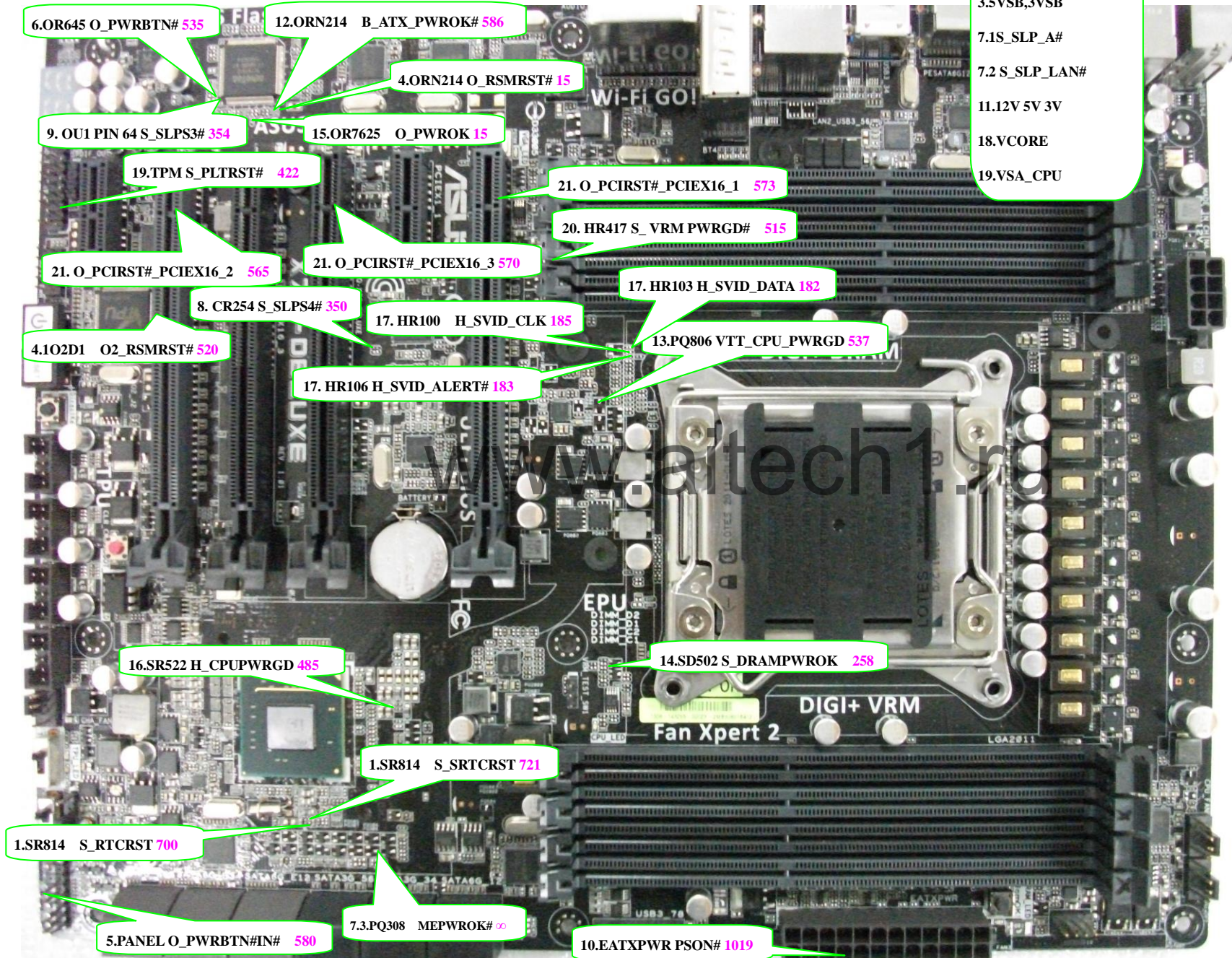
Pink number is Diode resistance to GND(without any part on MB)multimeter type DH-1240

Voltage Measure Point

multi meter "VΩmA" port touch GND



Signal Measure Point



2. AC POWER SW ON

3.5VSB,3VSB

7.1S_SLP_A#

7.2 S_SLP_LAN#

11.12V 5V 3V

18.VCORE

19.VSA_CPU