














EEVBlog #1355 IC Identifications Pt. 1

Original Video Link: <https://www.youtube.com/watch?v=Y6gzYbuMjOA>

Component Function Guide

Color	Chip Use	Examples
	Audio	Amplifiers/CODECs/Microphones
	Camera/Image	Image Sensors/Video Processors
	Connectivity	Antennas/Bluetooth/GPS/USB/WiFi Stuff
	Display/Touchscreen	Touchscreen/Display Drivers
	Logic	PLDs/FPGAs/Logic Gates
	Memory	EEPROMs/NAND/RAM/SDRAM
	Mixed Signal	DSPs/MCUs
	Power	Battery Protection/Charge Controllers/PMICs/Voltage Regulators
	Processor	Application/Baseband Processors
	Radio Frequency	Radio Frequency/Envelope Tracking Stuff
	Sensor	Accelerometer/Pressure/Temperature
	Other	LED Controllers/Operational Amplifiers
	Unknown	Chips with no predictions of use

Design Wins

Purpose	Manufacturer	Part Number
Oscilloscope Processor	Xilinx	XC7Z0xx
Memory	Samsung	K4B2G1646F-BYMA
		K4B1G1646I-BCMA
Power Management	Texas Instruments	TPS65400
Ethernet Transceiver	Texas Instruments	DP83848K
USB Transceiver	Microchip	USB3320C
Analog-to-Digital Converter	Analog Devices	HMCAD1511
		AD5660CRMZ

Main Board

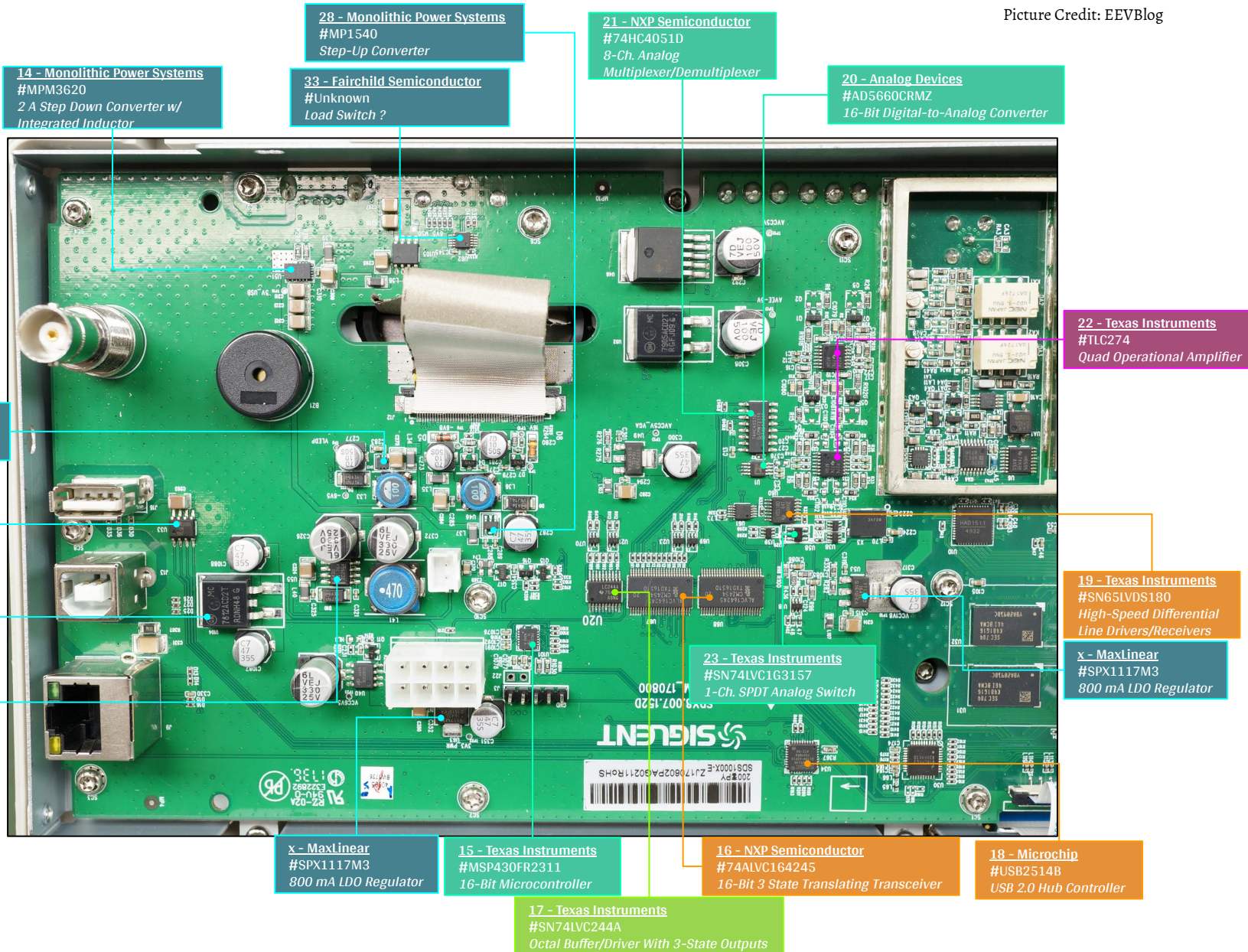
Side 1 IC Identification - Section 1/2

Picture Credit: EEVBlog

Function:

- Connectivity
- Logic
- Mixed Signal
- Power
- Other

? = Unconfirmed



Main Board

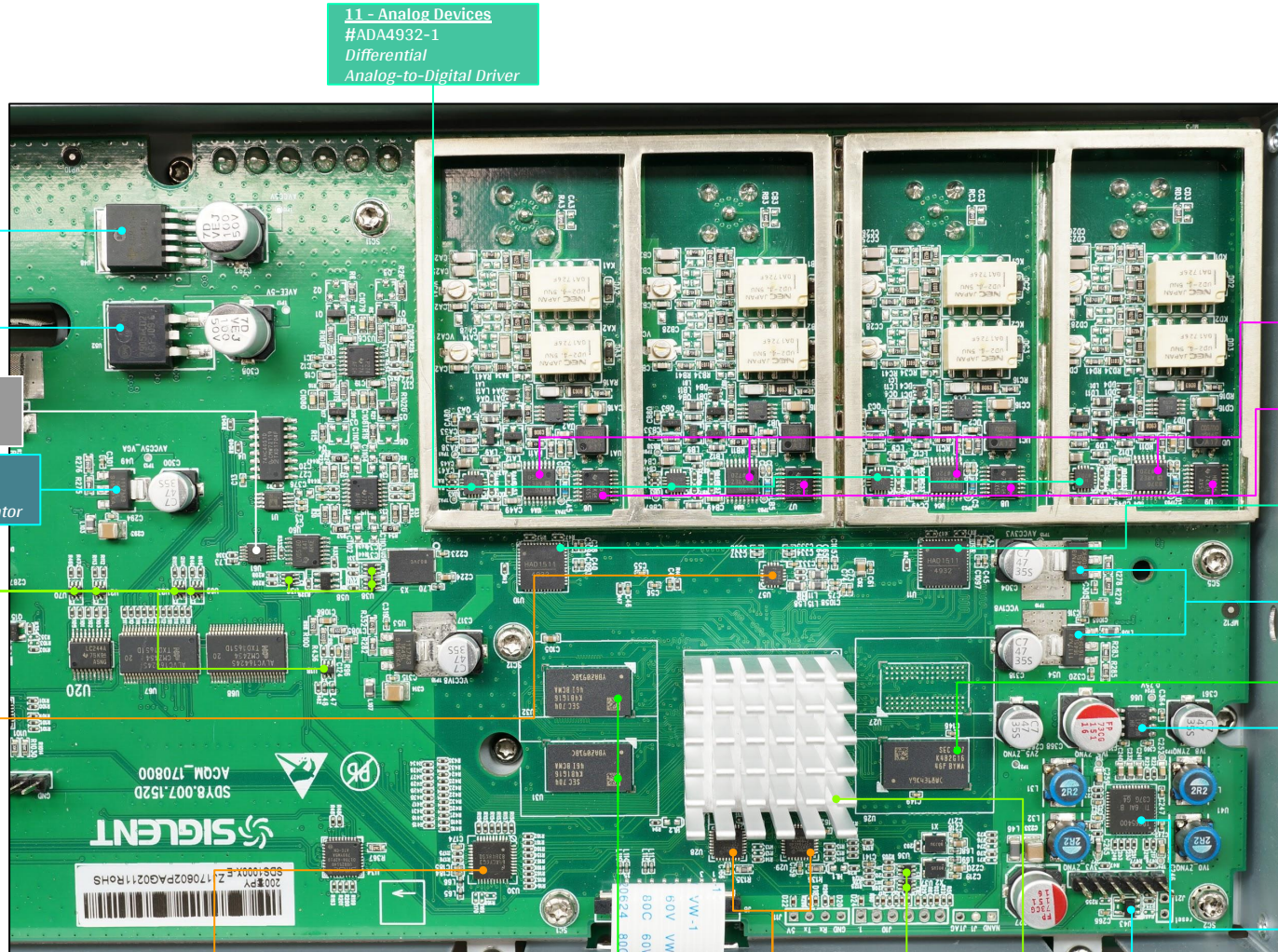
Side 1 IC Identification - Section 2/2

Picture Credit: EEVBlog

Function:

- Connectivity
- Logic
- Memory
- Mixed Signal
- Power
- Other
- Unknown

? = Unconfirmed



11 - Analog Devices
#ADA4932-1
Differential
Analog-to-Digital Driver

26 - Texas Instruments
#TPS7A4501
Adjustable LDO
Regulator

25 - ON Semiconductor
#MC7905
1 A Negative Voltage
Regulator

34 - Fairchild Semiconductor
#Unknown
Unknown

24 - MaxLinear
#SPX1117M3
800 mA LDO Regulator

12 - Texas Instruments
#Unknown
Buffer ?

13 - Unknown
#Unknown
Clock Generator ?

10 - Analog Devices
#AD8370
Digitally Controlled VGA

9 - Texas Instruments
#SN74AHCT595
8-Bit Shift Register

8 - Analog Devices
#HMCAD1511
8-Bit High Speed
Analog-to-Digital
Converter

24 - MaxLinear
#SPX1117M3
800 mA LDO Regulator

2 - Samsung
#K4B2G1646F-BYMA
DDR3 SDRAM Memory - 2 Gb

7 - Texas Instruments
#LP2998
DDR Termination Regulator

5 - Texas Instruments
#TPS65400
Power Management

6 - Texas Instruments
#TPS3823A-33
Voltage Supervisor

4 - Texas Instruments
#DP83848K
1-Ch. 10/100 MB/s
Ethernet Transceiver

3 - Samsung
#K4B1G1646I-BCMA
DDR3 SDRAM Memory - 1 Gb

32 - Microchip
#USB3320C
USB 2.0 Transceiver

12 - Texas Instruments
#Unknown
Buffer ?

1 - Xilinx
#XC7Z0xx
Zynq FPGA w/ ARM SoC

Subsystems

Power Supply PCB Side 1

Picture Credit: EEVBlog

Function:

Power

? = Unconfirmed

35 - Texas Instruments
#UCC24610
Secondary Side Synchronous
Rectifier Controller

36 - Unknown
#Unknown
Adjustable Regulator

37 - STMicroelectronics
#L7815CV
15 V Regulator

