














## EEVBlog #1355 IC Identifications Pt. 2

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

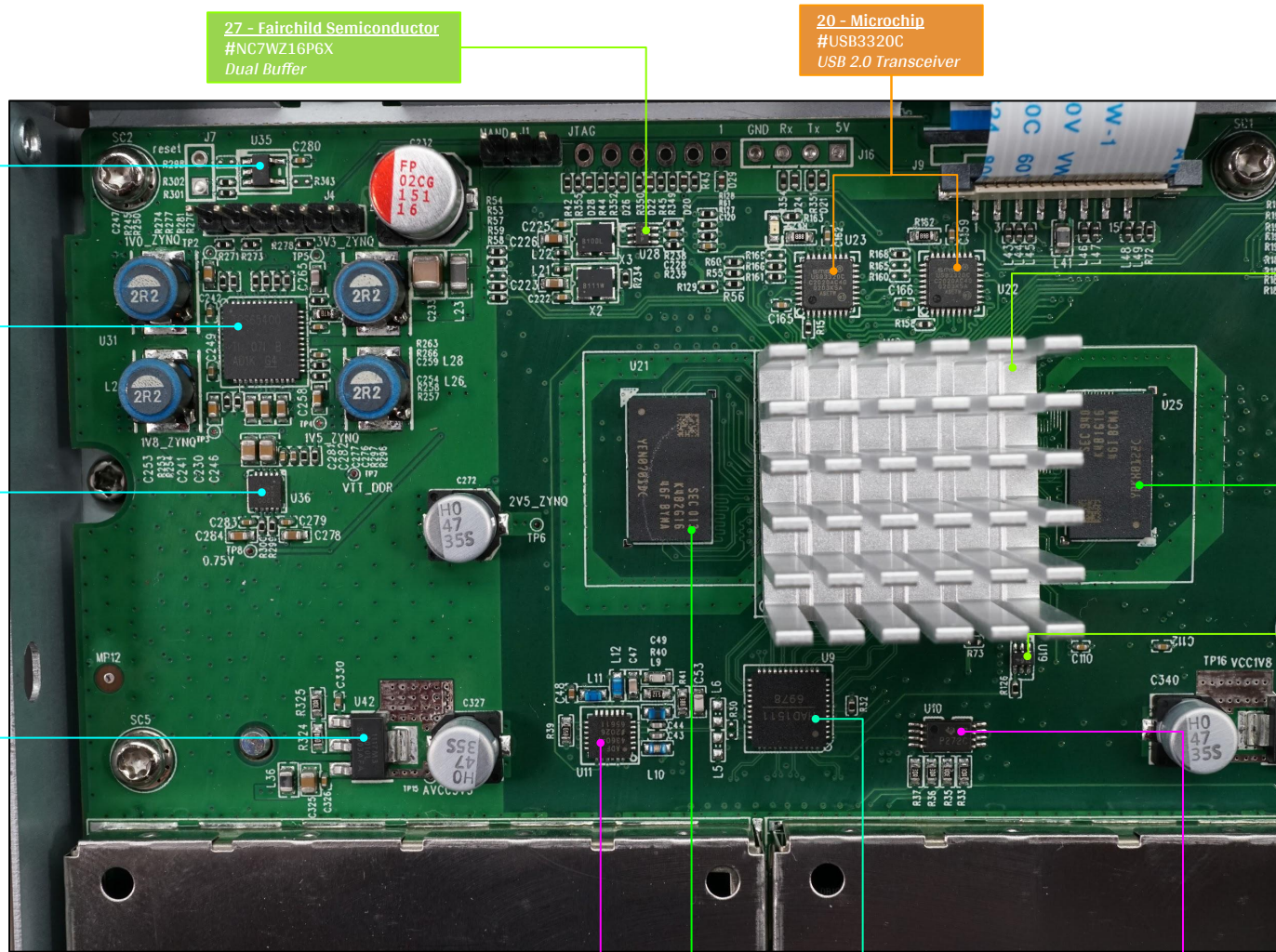
# Design Wins

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
	Texas Instruments	DAC80501

# Main Board

## Side 1 IC Identification - Processing Section

Picture Credit: EEVBlog



27 - Fairchild Semiconductor  
#NC7WZ16P6X  
Dual Buffer

20 - Microchip  
#USB3320C  
USB 2.0 Transceiver

8 - Texas Instruments  
#TPS3823A-33  
Voltage Supervisor

6 - Texas Instruments  
#TPS65400  
Power Management

7 - Texas Instruments  
#TPS51200  
3 A DDR Termination  
Regulator

25 - Maxlinear  
#SPX1117M3  
800 mA LDO Regulator

1 - Xilinx  
#XC7Z0xx  
Zynq FPGA w/ ARM SoC

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

27 - Fairchild Semiconductor  
#NC7WZ16P6X  
Dual Buffer

5 - Analog Devices  
#ADF4360-7  
Integrated Synthesizer and VCO

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

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

21 - Texas Instruments  
#TLC272  
Dual Operational Amplifier

### Function:

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

? = Unconfirmed



# Main Board

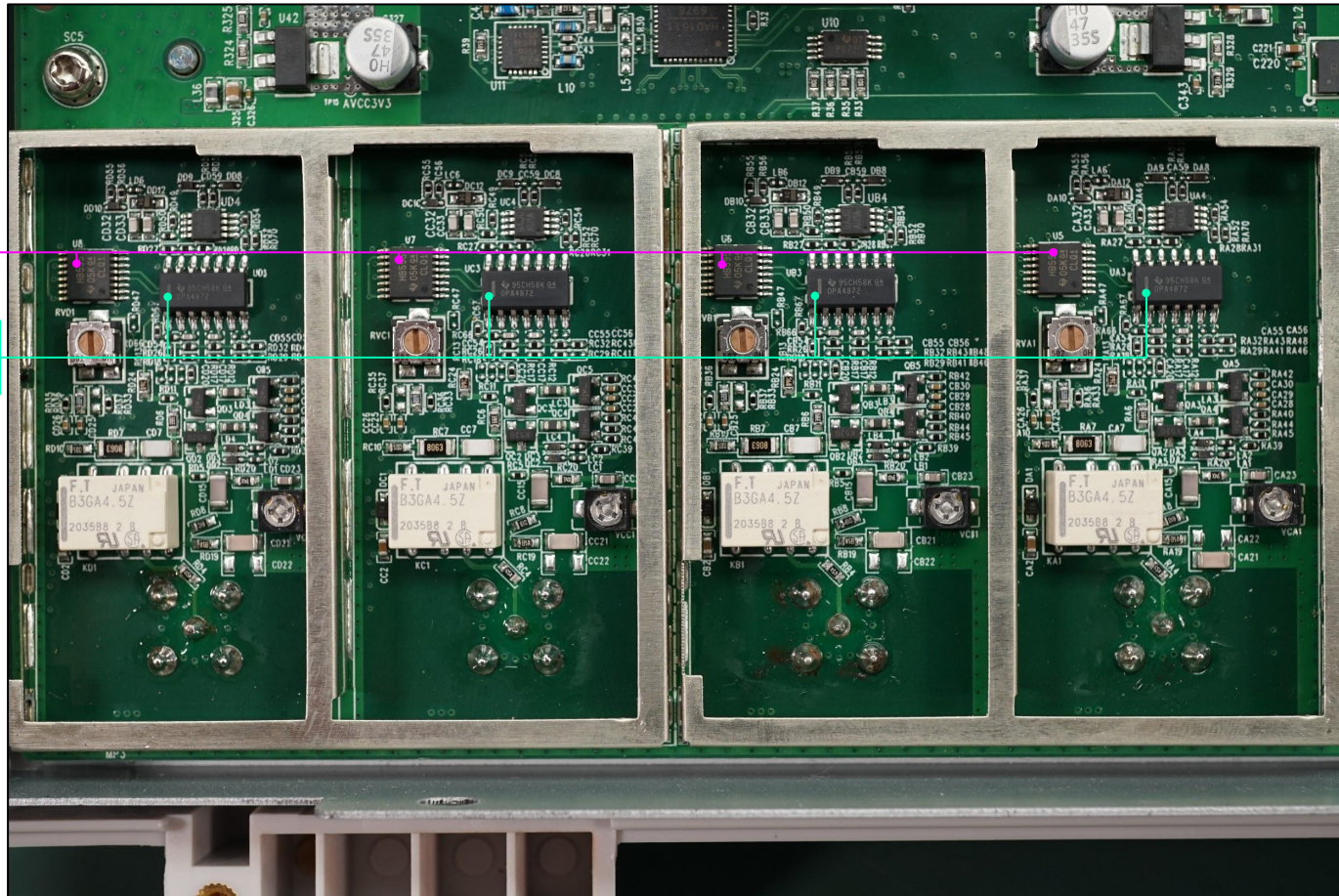
## Side 1 IC Identification - Front End Section

Picture Credit: EEVBlog

### Function:

- Mixed Signal
- Other

? = Unconfirmed



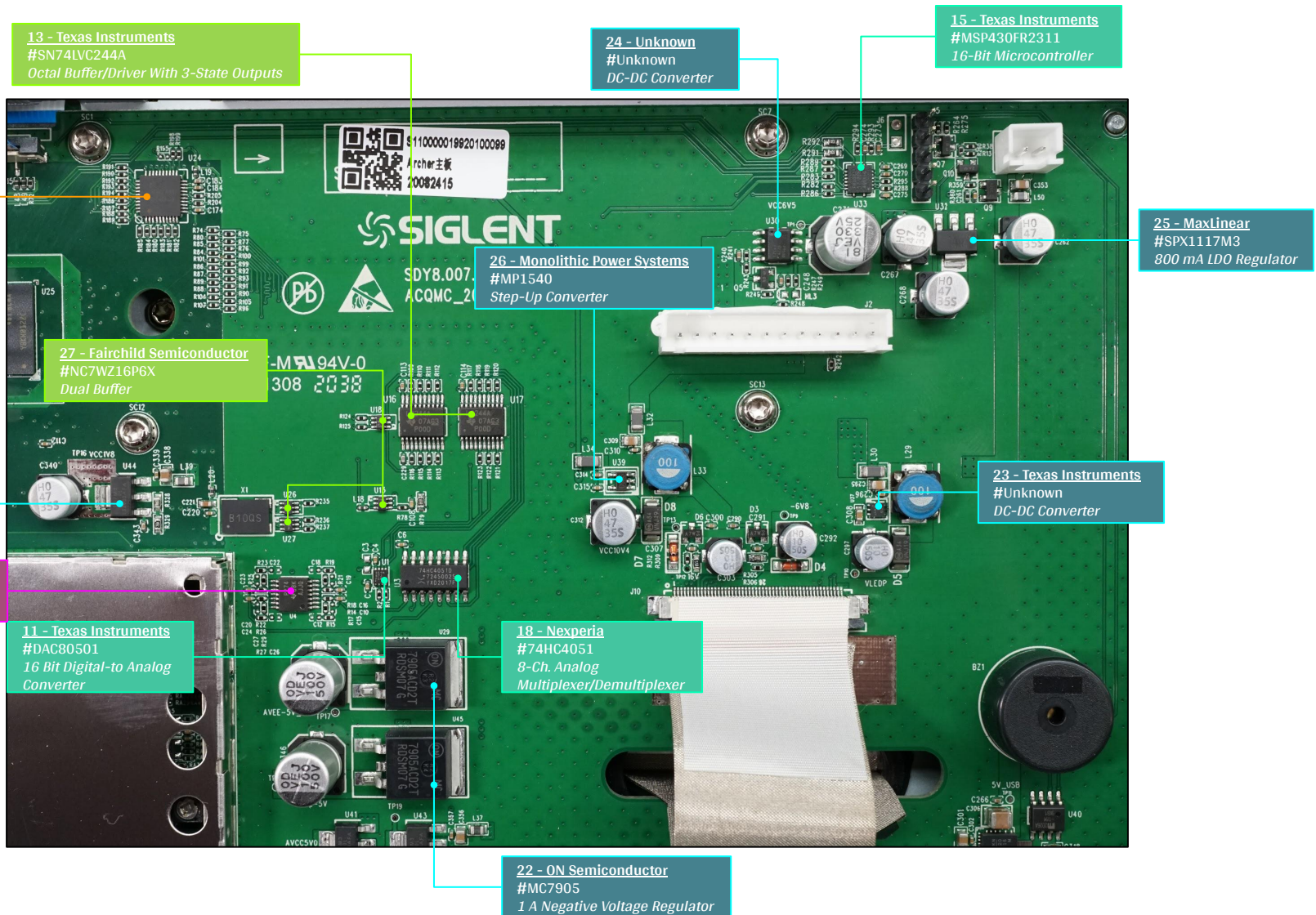
10 - Texas Instruments  
#SN74AHCT595  
8 Bit Shift Register

9 - Texas Instruments  
#OPA4872  
High Speed 4:1 Multiplexer

# Main Board

## Side 1 IC Identification - Power Section Pt. 1

Picture Credit: EEVBlog





# Main Board

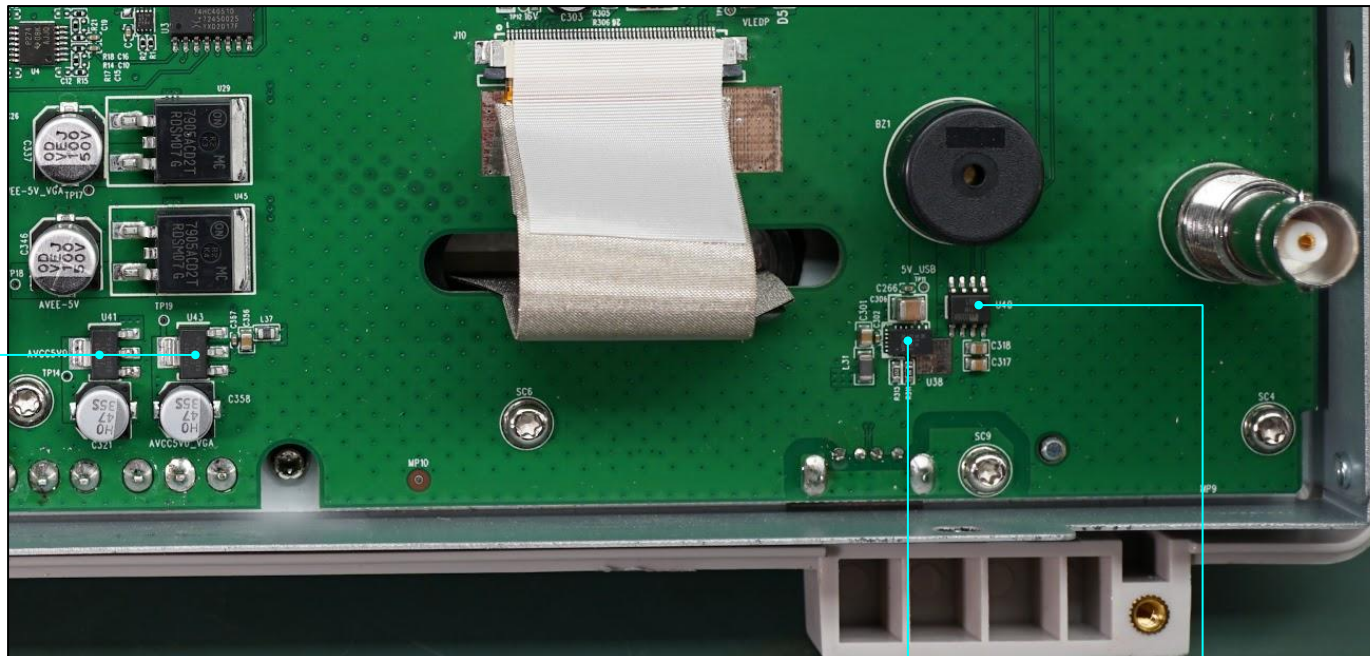
## Side 1 IC Identification - Power Section Pt. 2

Picture Credit: EEVBlog

Function:

Power

? = Unconfirmed



**25 - MaxLinear**  
#SPX1117M3  
*800 mA LDO Regulator*

## 16 - Monolithic Power Systems

#MPM3620

2 A Step Down Converter w/  
Integrated Inductor

17 - Microchip  
#MIC2026  
2-Ch. 500 mA USB Current  
Limit Switch