

Denso Lexus GS350 TCU Teardown

試読用抜粋レポート

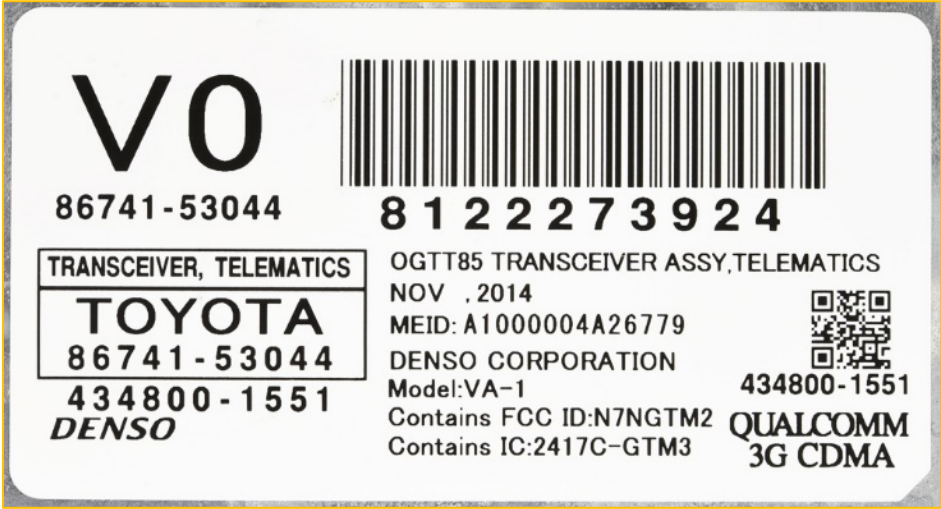
FEATURES:

- Telematics Control Unit
- CDMA
- Cypress MB91F577BH, 32-bit, 80MHz



Manufacturer	Denso
Model Number	86741-53044
Carrier	-
Assembled in	unknown
Retail Price	unknown
Product Release	2015.??.??
Document ID	1115

BASIC	Product Name	Lexus GS350 TCU, 86741-53044					
	Manufacturer	Denso Corporation					
	Minimum Size (mm)	140.1 x 118.8 x 28.7					
	Weight (g)	414					
BATTERY TIME	Standby (hours)	3.9G: FDD-LTE: -	3.9G: TD-LTE: -	3G: WCDMA: -	3G: CDMA: ?	3G: TD-SCDMA: -	2G: GSM:
	Voice Call (minutes)	3.9G: FDD-LTE: -	3.9G: TD-LTE: -	3G: WCDMA: -	3G: CDMA: -	3G: TD-SCDMA: -	2G: GSM: -
	Video Call (minutes)	-					
	Digital TV (minutes)	-					
	Other	-					
	Battery (size in mm)	-					
SYSTEM	OS	unknown					
	CPU / ROM / RAM	CPU: Cypress (Fujitsu) MB91F577BH, 32-bit, 80MHz ROM: 256MByte + 256MByte RAM: 128MByte					
DISPLAY	Main Display	-					
	Sub Display	-					
COMMUNICATION	Protocol (MHz)	3.9G: FDD-LTE: - 3.9G: TD-LTE: - 3G: WCDMA: - 3G: CDMA: 800, 1900 3G: TD-SCDMA: - 2G: GSM: -					
	HSDPA/HSUPA (Mbps)	3G: unknown			LTE: -		
	Wireless LAN	-					
	Bluetooth	-					
	GPS	Yes					
	Infrared	-					
	RFID/NFC	-					
CAMERA	Main Camera	-					
	Sub Camera	-					
SENSOR	Motion	Accelerometer: -		Digital Compass: -		Gyroscope: -	
		Gesture Recognition: -		-		-	
	Ambient	Light Sensor: -		Proximity Sensor: -		Temperature Sensor: -	
	Security	Fingerprint Sensor: -		-		-	
	Healthcare	Heart Rate Monitor: -					
	Touch Panel	-					
OTHER	HDMI	-					
	MicroSD (max capacity)	-					
	Waterproof/Anti-shock	-					



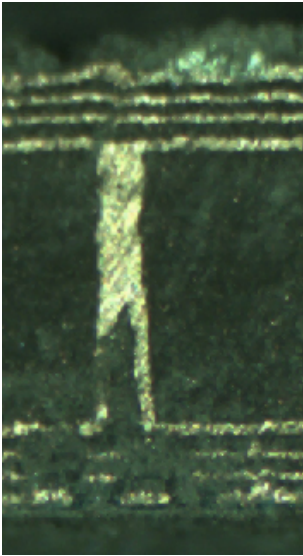
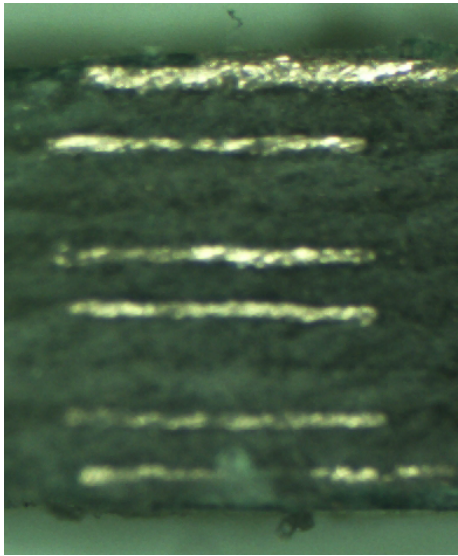
Bottom Cover



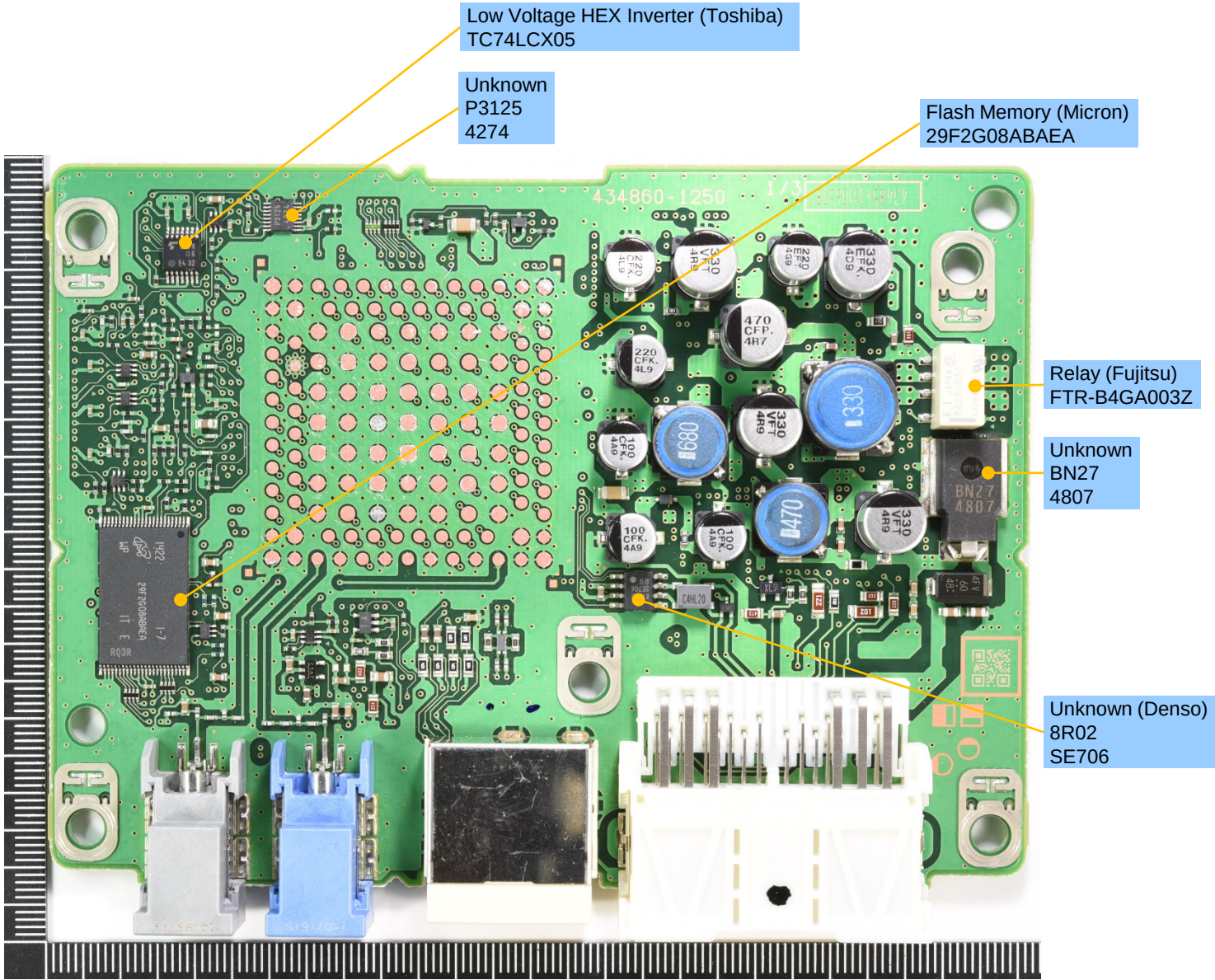
PCB DIMENSION & MARKING

Unit: millimeter otherwise specified

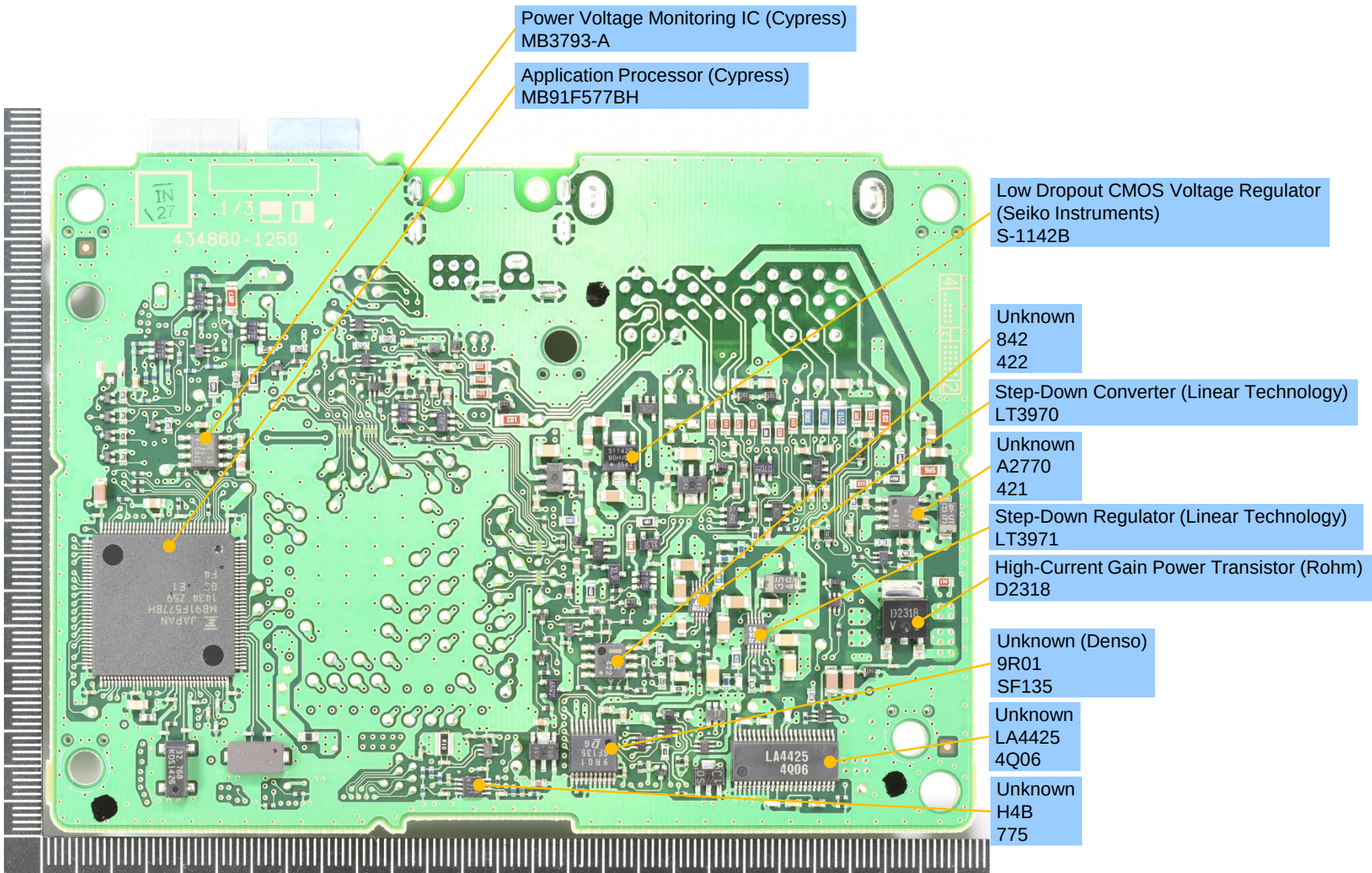
	PCB #1	PCB #2	-	-	-	-
Manufacturer	unknown	unknown	-	-	-	-
Dimension	130.75 x 95.91 x 1.94	40.09 x 40.15 x 1.51	-	-	-	-
Layer	6	8	-	-	-	-
Connector (pin)	0	0	-	-	-	-
Connector (socket)	4	0	-	-	-	-
Connector (ACF)	0	0	-	-	-	-



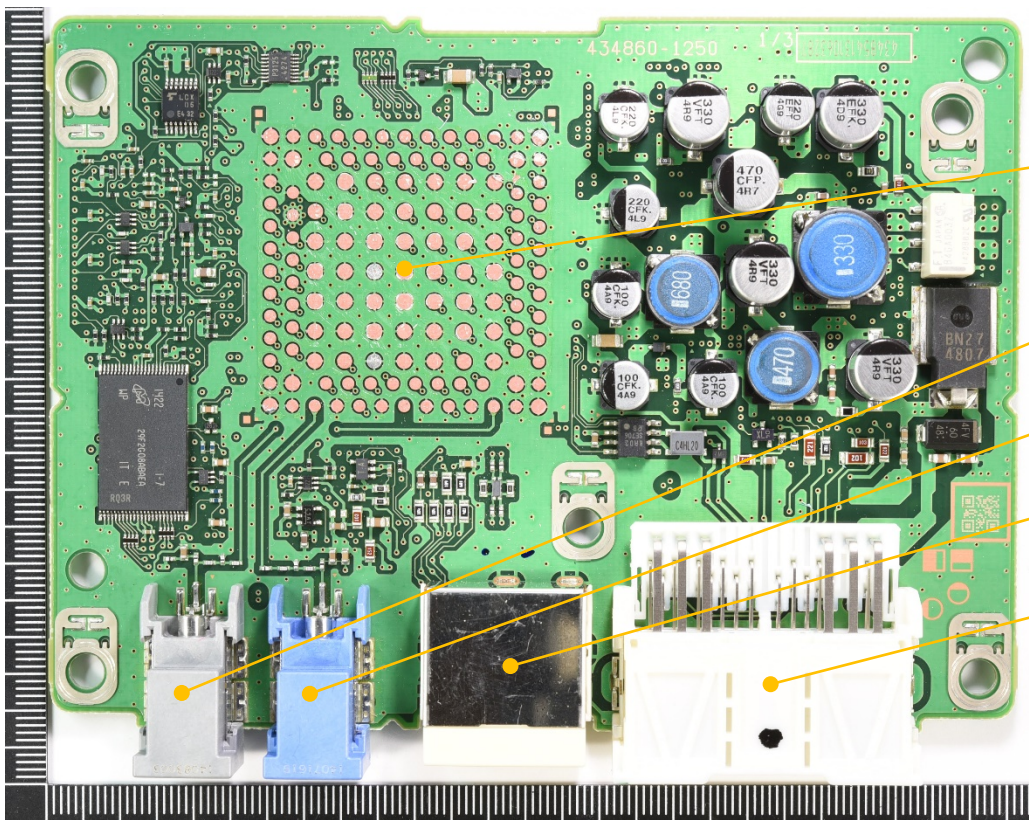
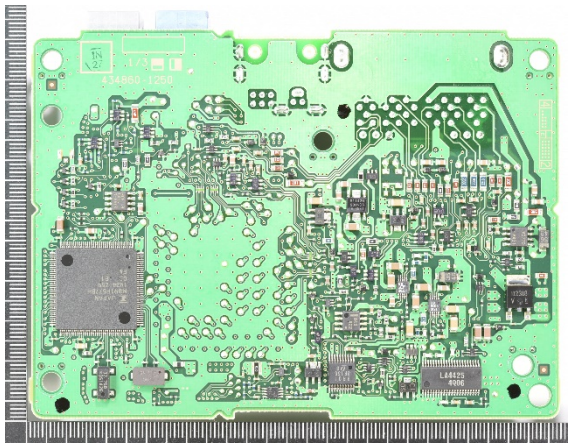
PCB#1 SIDE A: KEY COMPONENTS



PCB#1 SIDE B: KEY COMPONENTS



PCB#1: CONNECTORS



Connecting to	PCB#2		
Mnf.	-	L (mm)	-
Pin Pitch (mm)	-	W (mm)	-
Pin #	133	(H) (mm)	-
Connecting to	Antenna Port (CDMA)		
Mnf.	Sumitomo	L (mm)	24.56
Pin Pitch (mm)	-	W (mm)	13.09
Pin #	1	(H) (mm)	12.86
Connecting to	Antenna Port (CDMA)		
Mnf.	Sumitomo	L (mm)	24.53
Pin Pitch (mm)	-	W (mm)	13.01
Pin #	1	(H) (mm)	12.88
Connecting to	Input / Output		
Mnf.	JAE	L (mm)	23.40
Pin Pitch (mm)	-	W (mm)	21.22
Pin #	8	(H) (mm)	12.12
Connecting to	Input / Output		
Mnf.	unknown	L (mm)	33.70
Pin Pitch (mm)	-	W (mm)	40.25
Pin #	38	(H) (mm)	11.73

PCB#2 SIDE A: CELLULAR

1 notch = 1mm

3G Module
GTM-3 (Sierra Wireless)

Filter (mnf. unknown)
HF14
2308
0967

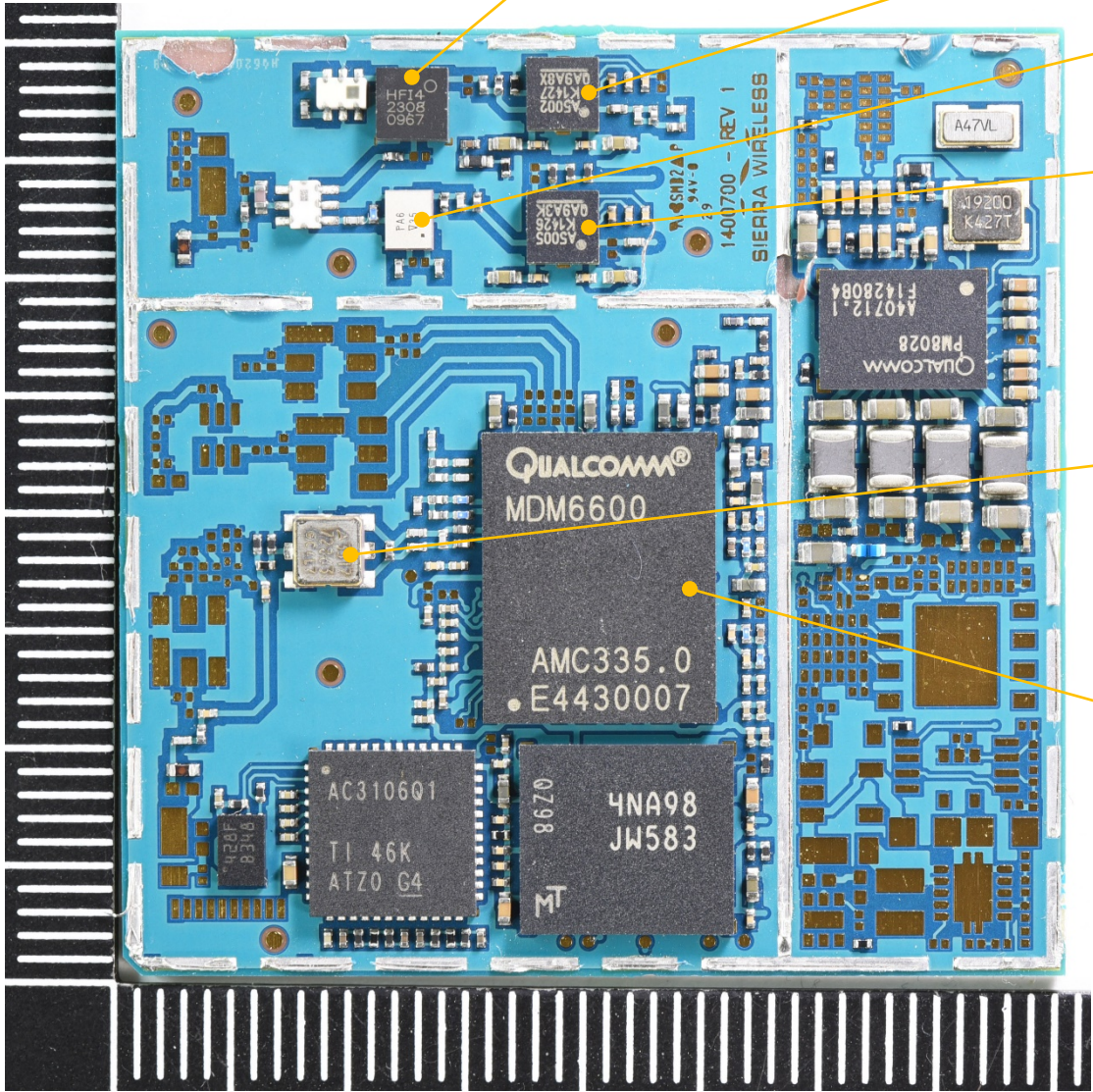
CDMA Power Amplifier (Avago)
ACPM-5002

Filter (mnf. unknown)
PA6
V35

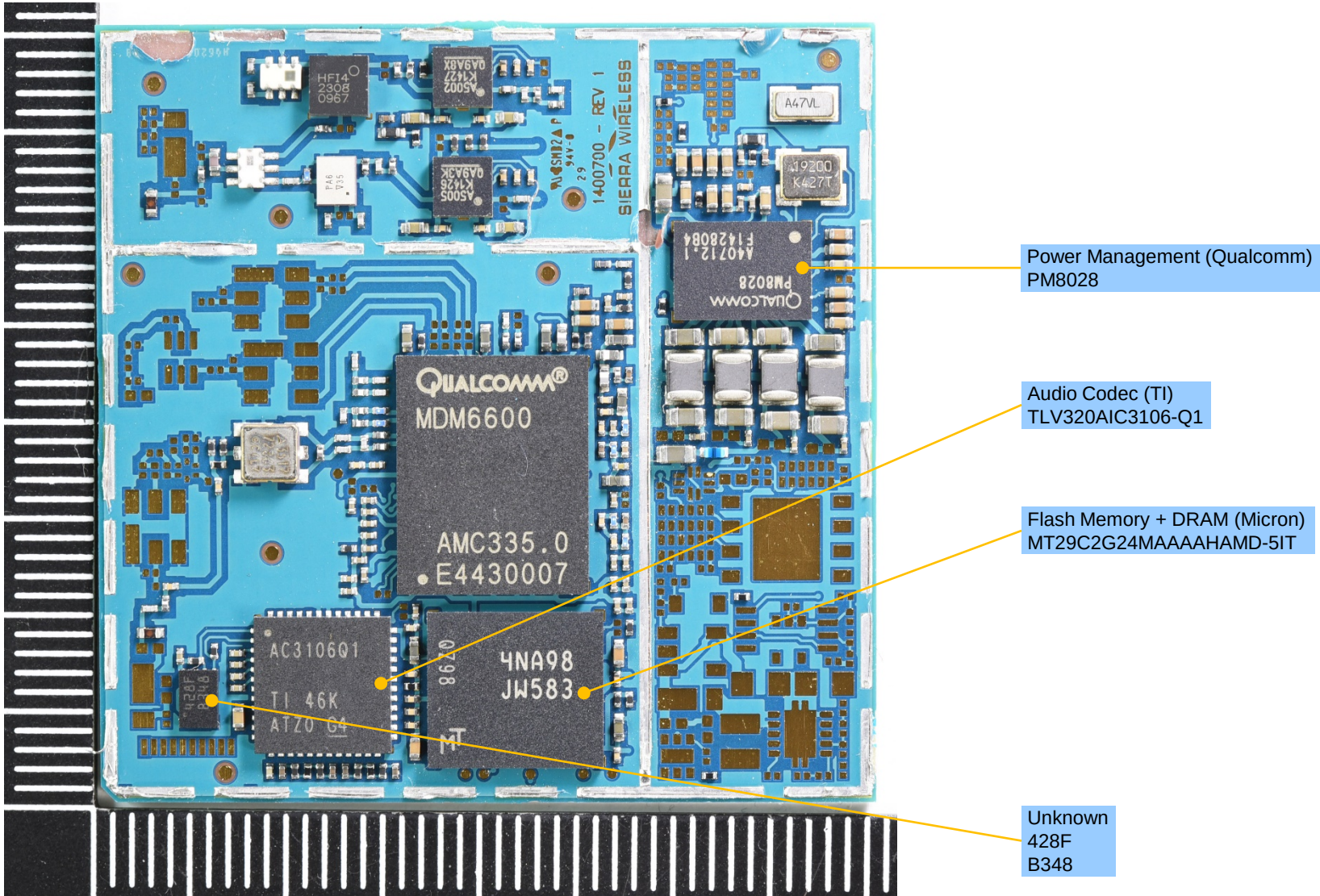
CDMA Power Amplifier (Avago)
ACPM-5005

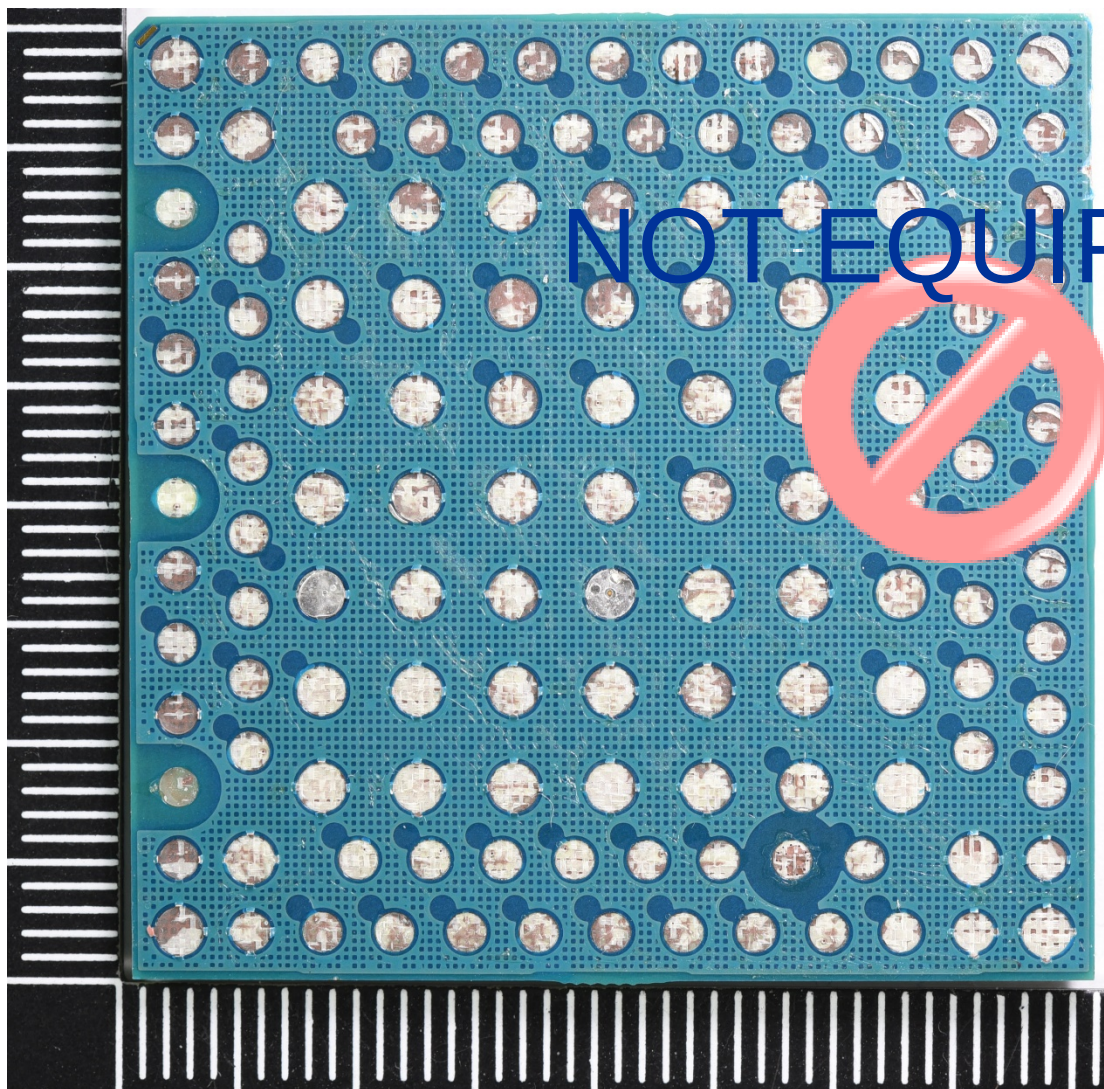
SAW Filter (TDK)
B3517

Baseband Processor + CDMA Transceiver + GPS (Qualcomm)
MDM6600



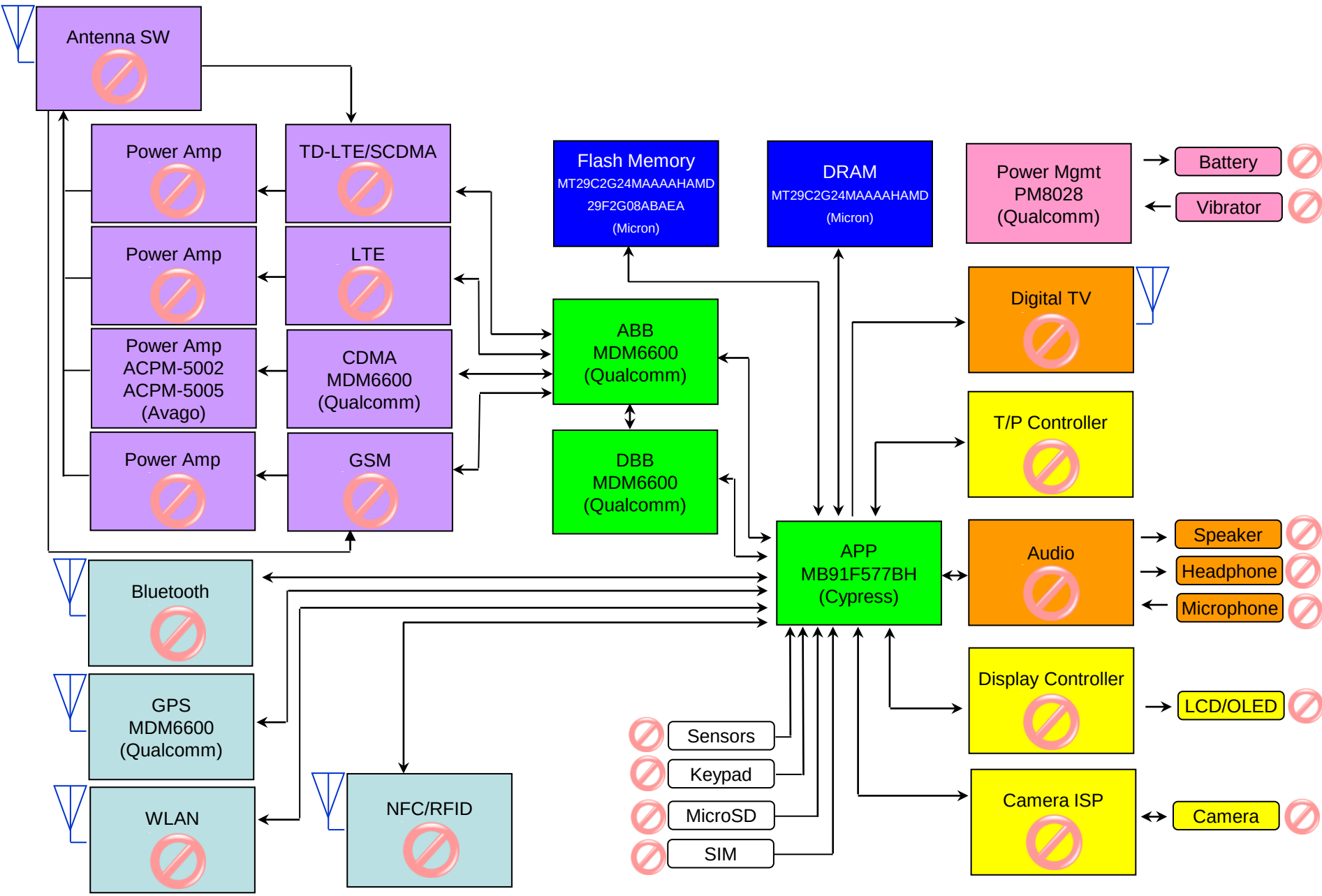
PCB#2 SIDE A: KEY COMPONENTS





NOT EQUIPPED

BLOCK DIAGRAM (with assumption)



試読用抜粋レポート

SERVICES

- TEARDOWN: on cellular phone, smartphone, tablet, laptop PC, digital still camera, LCD TV, and other mobile equipments.
- BILL OF MATERIALS: all-component-cost breakdown into more than 100 categories.
- MARKET REPORT: based on requests.
- SEMINAR: based on requests. Free seminars offered to regular subscribers every quarter.
- INTELLECTUAL PROPERTY: old phones available since 1996 up to date. Most of them are functional.

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