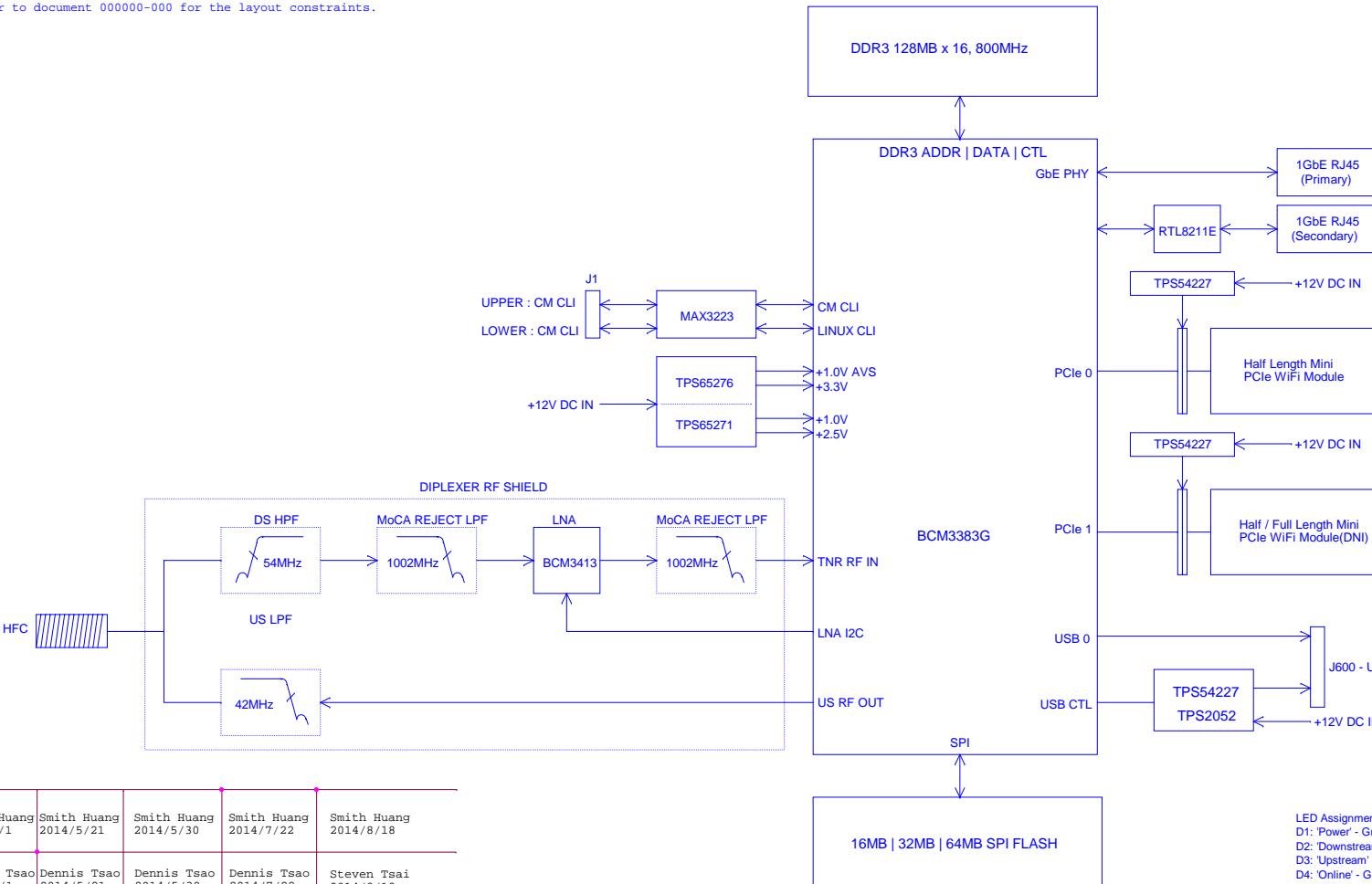


# SBG6400 DOCSIS 3.0 8x4 Full Capture Bandwidth Cable Modem Gateway Schematic

Notes:

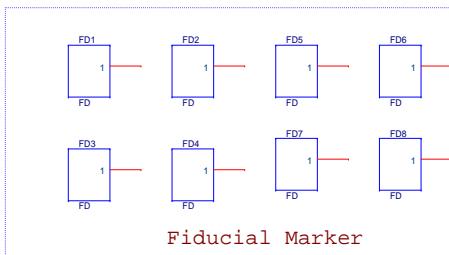
1. All resistors and capacitors are 0402 unless noted otherwise.
2. The DOCSIS 3.0 US/DS Diplexer, and the LNA section shall be placed inside a one piece RF shield.
3. The PWB shall be no more than 4 layers.
4. Exact component placement and routing for the BCM3383G and BCM3413 per the Broadcom design guide and reference design must be followed.
5. Refer to document 000000-000 for the layout constraints.



LED Assignments On Front Panel...

- D1: 'Power' - Green
- D2: 'Downstream' - Green DOCSIS 2, Blue DOCSIS 3 Bonded
- D3: 'Upstream' - Green DOCSIS 2, Blue DOCSIS 3 Bonded
- D4: 'Online' - Green
- D900: '2.4GHz WiFi' - Green Activity / Link, Yellow WPS
- D950: '5GHz WiFi' - Green Activity / Link, Yellow WPS(DNI)
- D602: 'USB' - Green Activity / Link

Revision	ECN Number	Description	APPD
	Smith Huang 2014/4/1	Smith Huang 2014/5/21	INCORP
	Dennis Tsao 2014/4/1	Dennis Tsao 2014/5/21	R65/R74/R77/R78 update U2 Part number
	C EB-09468	To correct double release schematic error, no any change in the schematic.	DNI R65/R74/R77/R78 update U2 Part number
A EB-09415	D EB-09626	Put R124/R135 back for PCIE_CLKREQn/PCIE_RSTn	Smith Huang 2014/5/30
B EB-09473	E EB-09719	Changed R706R72 from 4.5 ohm (AR605187) to 150 ohm (AR60528) for better ESD protection. Change D4 to Harvek (TG119UYG-20C0001) for Retail only.	Smith Huang 2014/7/22
C EB-09468		To correct double release schematic error, no any change in the schematic.	Smith Huang 2014/8/18
D EB-09415			Smith Huang 2014/8/18
			Steven Tsai 2014/8/18



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