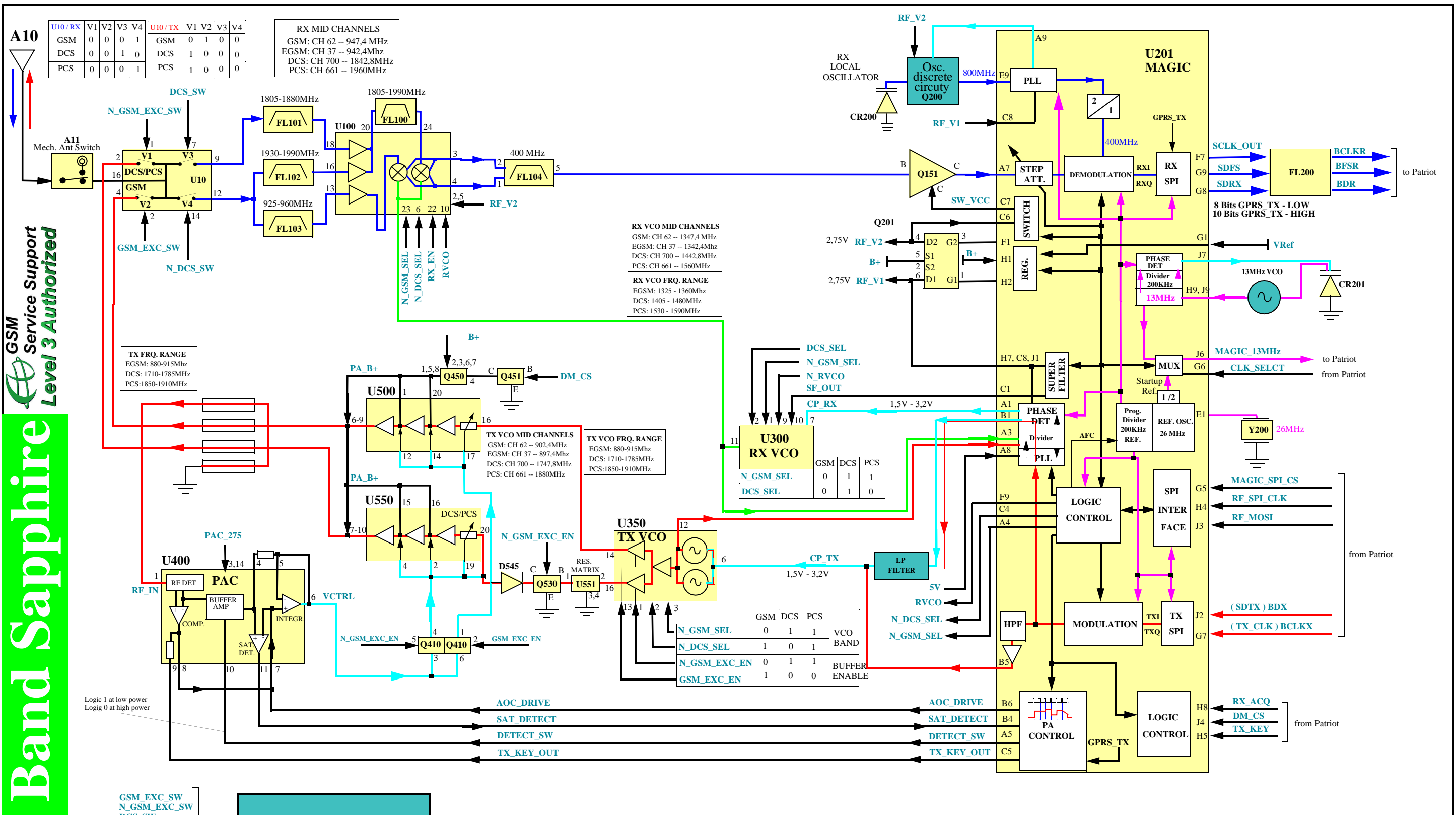


# Tri Band Sapphire



U10/RX	V1	V2	V3	V4	U10/TX	V1	V2	V3	V4
GSM	0	0	0	1	GSM	0	1	0	0
DCS	0	0	1	0	DCS	1	0	0	0
PCS	0	0	0	1	PCS	1	0	0	0

**RX MID CHANNELS**  
 GSM: CH 62 -- 947,4 MHz  
 EGSM: CH 37 -- 942,4MHz  
 DCS: CH 700 -- 1842,8MHz  
 PCS: CH 661 -- 1960MHz

**RX VCO MID CHANNELS**  
 GSM: CH 62 -- 1347,4 MHz  
 EGSM: CH 37 -- 1342,4MHz  
 DCS: CH 700 -- 1442,8MHz  
 PCS: CH 661 -- 1560MHz

**RX VCO FRQ. RANGE**  
 EGSM: 1325 - 1360MHz  
 DCS: 1405 - 1480MHz  
 PCS: 1530 - 1590MHz

**TX FRQ. RANGE**  
 EGSM: 880-915MHz  
 DCS: 1710-1785MHz  
 PCS: 1850-1910MHz

**TX VCO MID CHANNELS**  
 GSM: CH 62 -- 902,4MHz  
 EGSM: CH 37 -- 897,4MHz  
 DCS: CH 700 -- 1747,8MHz  
 PCS: CH 661 -- 1880MHz

**TX VCO FRQ. RANGE**  
 EGSM: 880-915MHz  
 DCS: 1710-1785MHz  
 PCS: 1850-1910MHz

	GSM	DCS	PCS	
N_GSM_SEL	0	1	1	VCO BAND
N_DCS_SEL	1	0	1	
N_GSM_EXC_EN	0	1	1	BUFFER ENABLE
GSM_EXC_EN	1	0	0	

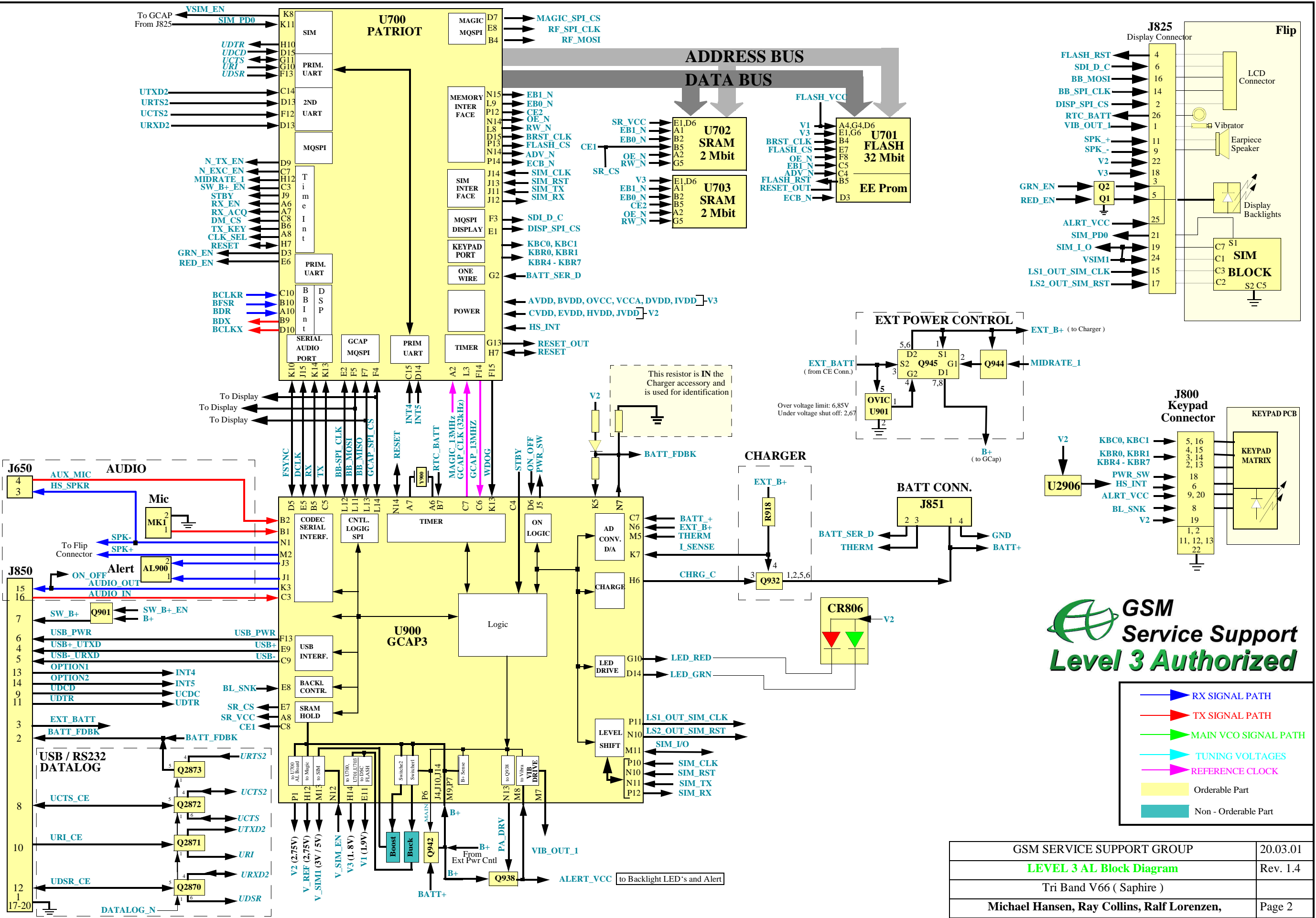
- GSM\_EXC\_SW
- N\_GSM\_EXC\_SW
- DCS\_SW
- N\_DCS\_SW
- DCS\_SEL
- N\_RVCO
- GSM\_EXC\_EN
- N\_GSM\_EXC\_EN
- PAC\_275
- 5V

**GSM / DPCS SELECT CIRCUIT**

For description of GSM / DPCS Select Circuit see document on: gsm-service.fle.css.mot.com

→ RX SIGNAL PATH	→ REFERENCE CLOCK
→ TX SIGNAL PATH	Orderable Part
→ MAIN VCO SIGNAL PATH	Non - Orderable Part
→ TUNING VOLTAGES	

# Tri Band Sapphire



**GSM Service Support**  
**Level 3 Authorized**

- Blue arrow: RX SIGNAL PATH
- Red arrow: TX SIGNAL PATH
- Green arrow: MAIN VCO SIGNAL PATH
- Cyan arrow: TUNING VOLTAGES
- Purple arrow: REFERENCE CLOCK
- Yellow box: Orderable Part
- Blue box: Non - Orderable Part

GSM SERVICE SUPPORT GROUP	20.03.01
<b>LEVEL 3 AL Block Diagram</b>	Rev. 1.4
Tri Band V66 ( Sapphire )	
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