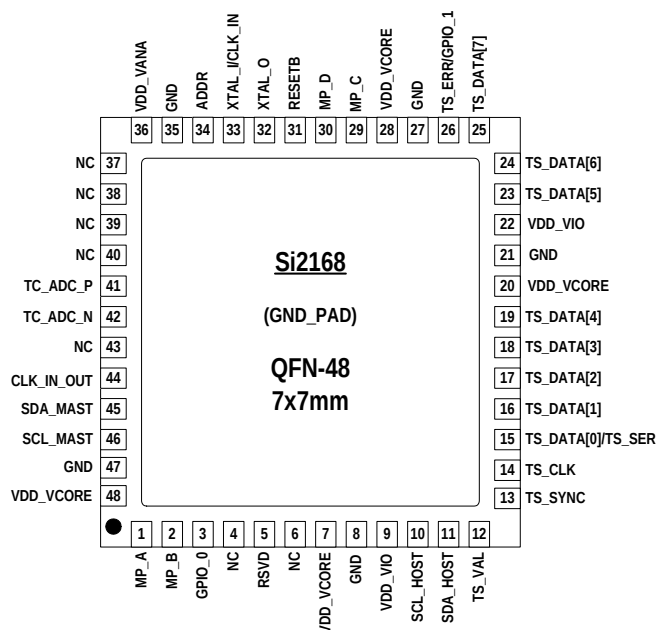


Selected Electrical Specifications

(T_A = -10 to 75 °C)

Parameter	Test Condition	Min	Typ	Max	Unit
General					
Input clock reference		4	—	30	MHz
Supported XTAL frequency		16	—	30	MHz
Total power consumption	DVB-T2 ¹	—	420	—	mW
	DVB-T ²	—	190	—	mW
	DVB-C ³	—	180	—	mW
Thermal resistance (θ _{JA})	2 layer PCB	—	35	—	°C/W
	4 layer PCB	—	23	—	°C/W
Power Supplies					
V _{DD_VCORE}		1.14	1.20	1.30	V
V _{DD_VANA}		3.00	3.30	3.60	V
V _{DD_VIO}		3.00	3.30	3.60	V
Notes:					
1. Highest power demodulation case: 8 MHz, 256 QAM, 32K FFT, CR=3/5, GI=1/128, PP7, C/N at picture failure.					
2. Highest power demodulation case: 8 MHz, 64QAM, IF Mode, 8K, Parallel TS Output.					
3. Highest power demodulation case: 6.9 Mbaud, 256 QAM, IF Mode, Parallel TS Output.					

Pin Assignments



Selection Guide

Part #	Description
Si2168-B40-GM/R	Terrestrial and Cable Digital TV Demodulator for DVB-T2/T/C, 7x7 mm QFN-48