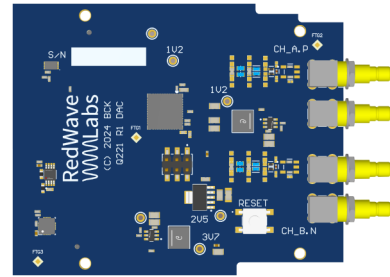


The Redwave Labs DAC board is an FMC module that provides two channels of high-speed analogue output. It utilizes the DAC3482 from Texas Instruments.



Specification

Features	16-bit Analogue output Settling time 10ns 250MSPS	
Applications	Acousto-Optical modulation (AOM/AOD) for switching Quantum Key Distribution (QKD) Quantum computing Quantum sensing Optical communications Software Defined Radio (SDR) Advanced Radar applications	
Specifications	Parameter	Value
Power	Single	+3V3 1A from FMC
Clock Sources	Differential	250MHz DDR
Analog Outputs	Frequency Range	1.2 GHz
	RF Output Power	0dBm max
	Amplitude Range	-30dBm to 0dBm logarithmic
Connections	FMC Low Pin Count	1x Power 1x SPI 1x Clock 16x LVDS bus
	Power	Molex microfit or power from backplane
	RF Out	2x SMB
	W x H x D	85 x 68 x 10mm (FMC)
Dimensions	Weight	100 g
	Storage Temp	-40 to 85 C
	Operating Temp	-20 to 85 C

Absolute Maximum Ratings

Symbol	Parameter	Ratings	Unit
V_{dd}	Supply Voltage	+12	Volt
T_{op}	Operational Temperature	-40 to 85	C
T_{st}	Storage Temperature	-55 to 100	C
P_t	Heat dissipation	20	W

Mechanical Information

FMC module

