

## **SiPM-Counter Pinouts**

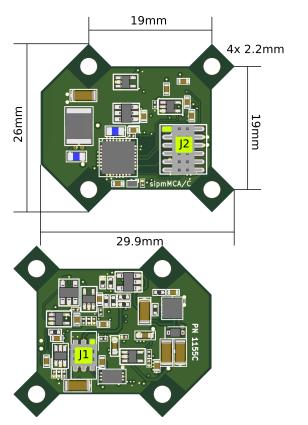


*In both SiPM-Counter assemblies, the bottom cup can be removed to replace the scintillator crystal.* 

## SiPM-Counter



## SiPM-Counter PCB connectors



SiPM-Counter and SiPM-1000 MCA have the same PCB shape.

12-pin MCA Connector, J2					
Pin	Name	Function			
1	S1	ARM, Port A3			
2	S0	ARM, Port A1			
3	GND	Ground			
4	QA	Analog output			
5	SWD_CLK / TX	Software Debug Clock / UART TX			
6	Vin	+5V nominal, 30mA			
7	SWD_IO / RX	Software Debug Data / UART RX			
8	SWD_RST#	Software Debug Reset (active low)			
9	GND	Ground			
10	QD	Trigger out; Alarm out			
11	USB-DM	USB Data -			
12	USB-DP	USB Data +			

The SiPM-Counter is powered and operated via the 12-pin MCA connector. Power consumption is 15mA (75mW) at room temperature.

SiPM Connector J1, CLP-6					
#	Name				
1	D+; cf Note 1				
2	D-; cf Note 1				
3	SiPM operating voltage (+)				
4	GND; Ground				
5	SiPM Anode				
6	GND; Ground				

Pinout of the SiPM connector; Note 1: The SiPM carrier board has an MMBT3904 NPN transistor connected as a diode (CB=D+ and E=D-). D+ and D- connect to an LTC2997 temperature-measuring IC.