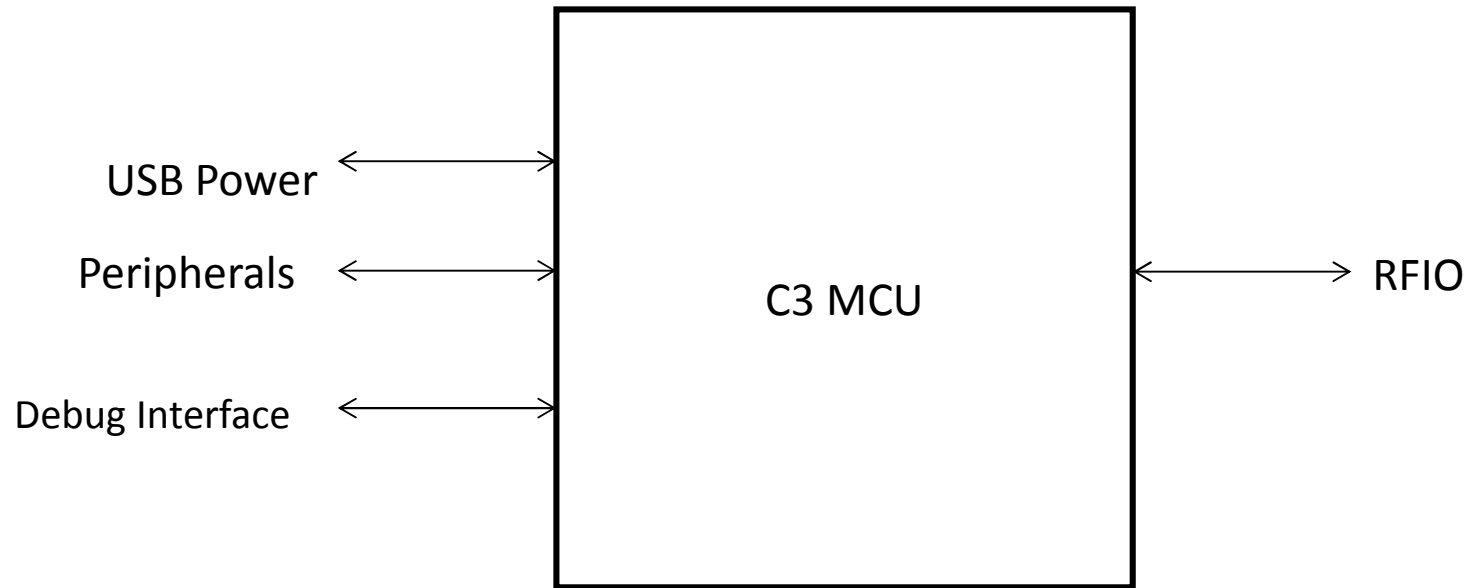


## LEVEL – 0 Diagram



Module	C3 MCU
Bi-directional (Input-Output)	<ol style="list-style-type: none"> <li>1) USB Power : supplies 4.5V-5.5V to the board and feeds data into and out of the system</li> <li>2) Debug Interface : Debug with JTAG interface</li> <li>3) Peripherals: Connection via GPIO to other components, for e.g. such as LEDs, audio-channel etc.</li> <li>4) RFIO: Radio input output channel at 436.6MHZ passband ; uses an antenna</li> </ol>
Functionality	<p>This module is a subsystem of a larger satellite CubeSat system. The main function of this subsystem is to receive and transmit high frequency data signal using Wi-Fi protocol. At the heart of this module is a microcontroller that takes commands via USB, GPIO, and JTAG configurations and uses radio frequency to communicate messages from and to another similar module.</p>