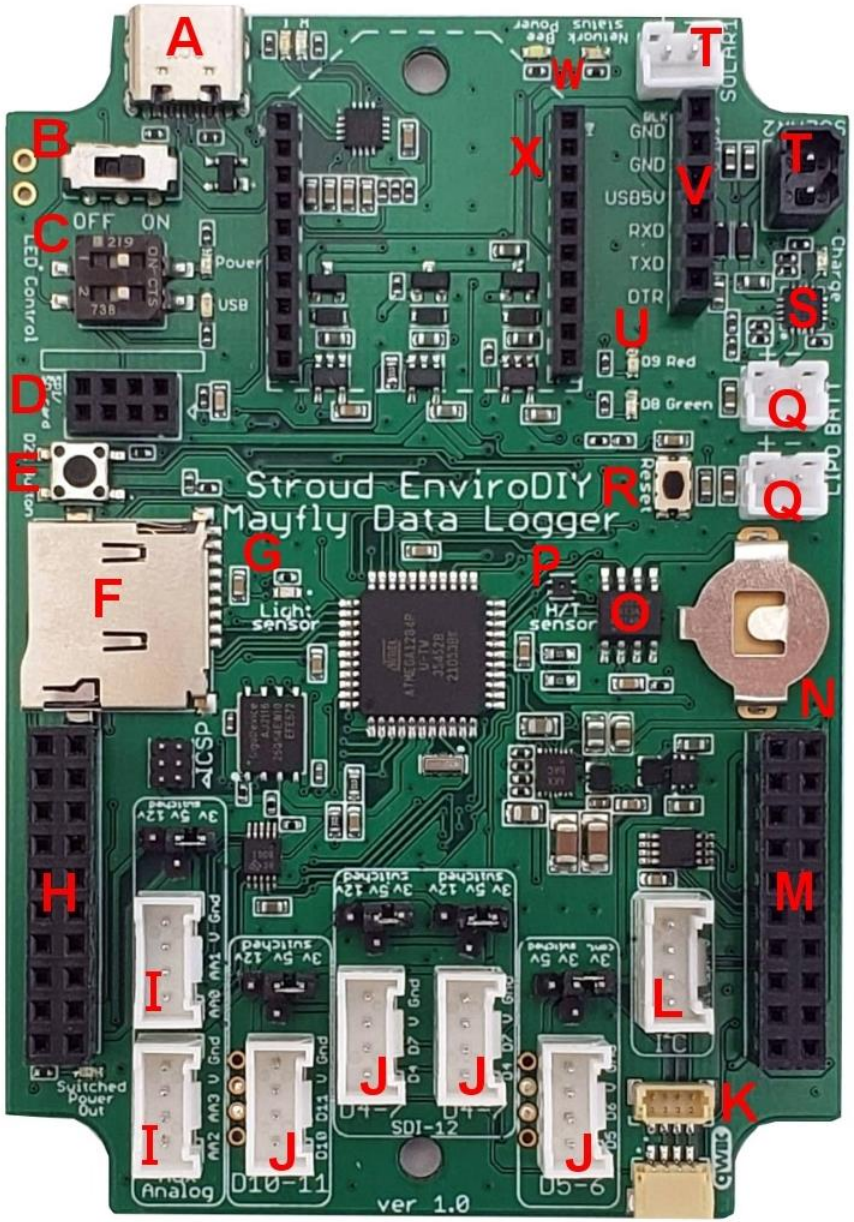
Features of the EnviroDIY Mayfly Data Logger v1.0 & v1.1



A	**USB-C port** – connect a standard USB-C cable to a computer for programming the Mayfly using the Arduino IDE software
B	**Power switch** – turns the Mayfly board on and off
C	**Power LEDs and DIP switches** – indicate board power and allow for enabling/disabling LEDs Both should be OFF when deployed
D	**microSD adapter connector** – socket for vertical microSD memory card adapter board
E	**User Pushbutton** – connected to pin D21 for user-defined input
F	**MicroSD card socket** – socket for storing data on a standard microSD memory card
G	**Light sensor** – built-in sensor for basic analog ambient light measurement
H	**Analog pin header** – access to the Mayfly's power, ground, & analog pins
I	**Auxiliary ADC Grove connectors** – pairs of Auxiliary Analog (ADS1115) pins along with ground and power
J	**Digital pin Grove connectors** – pairs of digital pins along with ground and power, for connecting sensors and Grove accessories
K	**Qwiic connectors** – two sockets for connecting Qwiic-compatible devices
L	**I^2C port Grove connector** – connection for devices that use the I^2C protocol
M	**Digital pin header** – access to the Mayfly's power, ground, & digital pins
N	**Clock battery –** socket for CR1220 lithium battery to keep clock chip (**O**) running when no other power is connected to Mayfly
O	**Real-time clock** – DS3231 clock module with on-board temperature sensor, retains the date and time after initial programming
P	**Humidity/Temperature sensor** – SHT40 digital humidity/temperature sensor
Q	**LiPo battery connectors –** JST socket for connecting 3.7v LithiumPolymer (LiPo) rechargeable battery. Additional socket is for providing power to high-current peripheral devices. Only connect one LiPo battery to the Mayfly.
R	**Reset button** – used to reset (restart) the board sketch
S	**Solar charger chip and charge LED** – uses either solar or USB power to charge the LiPo battery, yellow LED indicates charging
T	**Solar panel connectors** – sockets for connecting 6v solar panel for charging the LiPo battery (1 JST & 1 quick connect, use only 1)
U	**Red & Green LEDs** – User-programmable LEDs for providing visual feedback, connected to pins D8 (green) and D9 (red)
V	**FTDI programing header** – alternative port for programming board using an external FTDI adapter
W	**Bee module network status LEDs** – optional indicators for Bee module power and network status
X	**Bee module socket** – connection port for various telemetry modules that use the Bee footprint (mesh radio, WiFi, cellular)