



Module:	T10: Color Sensor ( Level-0 module view )
Inputs:	Analog signal corresponding to detected light wavelengths of 300-1100nm, line A2 connected to white LED to assist with capturing light wavelength data. -0.5 to +3.8 VDC power supply.
Outputs:	Analog-to-digital conversion of IR filtered photodiode signal is transferred to double buffered data registers and sent to a two wire I <sup>2</sup> C serial bus directly connected to microcontroller unit, ~400kHz transmission rate.
Functionality:	16-bit digital signal containing 4-bit representations of RGB levels plus a 4-bit clear register sent to an I <sup>2</sup> C interface