microSD Card SPI interface - Trēo™ Module

Module Features

- microSD Card SPI Interface
- RoHS Compliant
- Software Library
- NightShade Trēo™ Compatible
- Breakout Headers

Applications

- Data logging
- External Booting

Trēo™ Compatibility

Electrical

Communication	I2C
Max Current, 3.3V	100mA
Max Current, 5V	0mA

Mechanical

- 35mm x 25mm Outline
- 30mm x 20mm Hole Pattern
- M2.5 Mounting Holes

Description

The microSD card SPI interface Trēo™ Module provides the host platform with a direct SPI interface to an SD card. This connection can be utilized by platform specific drivers. (e.g. Arduino's SD library) This module is a part of the NightShade Treo system, patent pending.

Table of Contents

1 What is Trēo™?

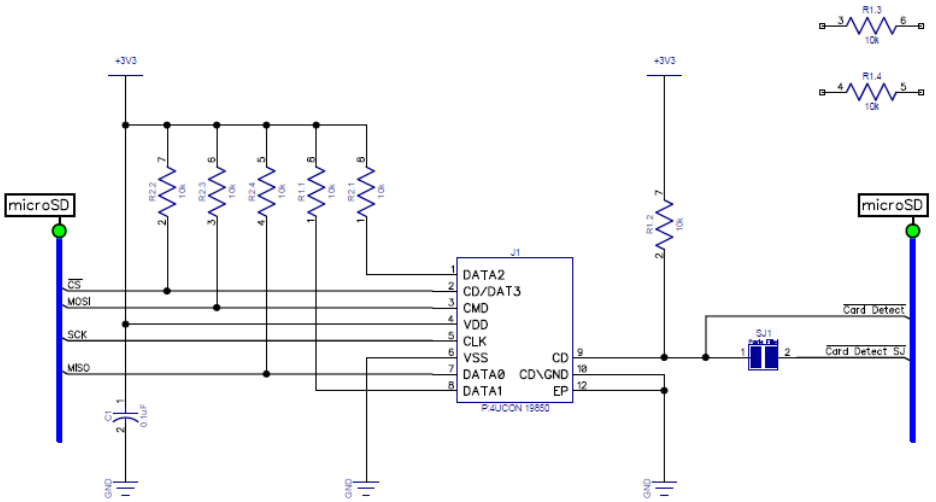
NightShade Trēo is a system of electronic modules that have standardized mechanical, electrical, and software interfaces. It provides you with a way to quickly develop electronic systems around microprocessor development boards. The grid attachment system, common connector/cabling, and extensive cross-platform software library allow you more time to focus on your application. Trēo is supported with detailed documentation and CAD models for each device.

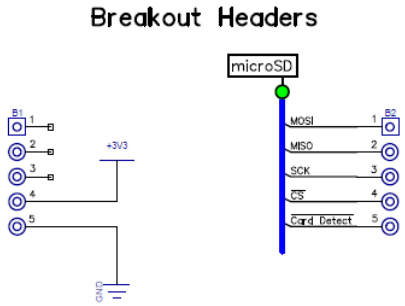
Learn more about Trēo here.

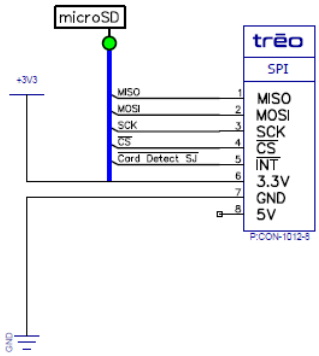
2 Electrical Characteristics

	Minimum	Nominal	Maximum
Voltages			
$V_{i/o}$ (SDA, SCL, INT)	-0.3V	-	3.6V
$V_{3.3V}$	3.1V	3.3V	3.5V
V_{5V}	4.8V	5.0V	5.2V
Operating Temperature	-25°C	-	85°C

3 Electrical Schematic







4 Mechanical Outline