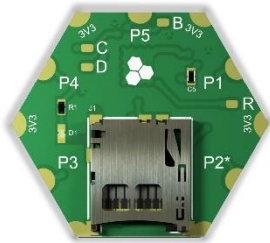




H05R00 Micro-SD Card

Data Storage


Technical Specifications



Top (1:1)



Bottom (1:1)

- Five array ports and four power ports (+3.3V and GND).
- Access to 5xUART, 1xI²C, SWD, BOOT0, RESET.
- **SPI**-connected microSD memory card for SD, SDHC and SDXC cards with full integration of **Fatfs** file system.
- Molex **502570-0893** microSD push-push connector with card detection.
- STM32F091CBU6 MCU. **Available colors:** 
- 8MHz external oscillator.

Commands *use with any serial terminal software*

`command parameter1 parameter2 ...`

```
addlog name type logRate delimiterFmt
indexFmt indexLabel
```

Create a new log with log *name* (without extension), *type* (rate, event), log rate *logRate* (Hz), delimiter format *delimiterFmt* (space, tab, comma), index column (leftmost) format *indexFmt* (none, sample, time) and index column label *indexLabel*.

```
logvar logName varType varSrc label
```

Add a variable to an existing log with *logName*. Variable type can be *varType* (port digital, port data, port button, memory uint8, memory int8, memory uint16, memory int16, memory uint32, memory int32, memory float). Variable source *varSrc* is (P1 ...Px) for ports, (B1 ...Bx) for buttons, memory location (Flash or RAM). *label* is variable column label.

```
deletelog logName options
```

Delete the log with *logName*. Delete *options* can be: keepdisk to delete from memory and keep on uSD card and all to delete everywhere.

Commands *continued*

```
start logName
stop logName
pause logName
resume logName
```

Start, stop, pause or resume this log.

Examples

```
addlog mylog rate 100 space time rtc_time
logvar mylog port button p1 switch1
logvar mylog memory float 0x20000100 myfloat
```

Messages *for inter-array communication*

```
code, parameter1 [value], parameter2 [value],
```

APIs *getting your hands dirty!*

```
output API_function(inputs)
```

```
Module_Status CreateLog(const char* logName,
logType_t type, float rate, delimiterFormat_t
delimiterFormat, indexColumnFormat_t
indexColumnFormat, const char*
indexColumnLabel)
```

Create a new data log.

```
Module_Status LogVar(const char* logName,
logVarType_t type, uint32_t source, const
char* ColumnLabel)
```

Save data from a source to an existing data log.

```
Module_Status StartLog(const char* logName)
```

```
Module_Status StopLog(const char* logName)
```

```
Module_Status PauseLog(const char* logName)
```

```
Module_Status ResumeLog(const char* logName)
```

```
Module_Status DeleteLog(const char* logName,
options_t options)
```

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