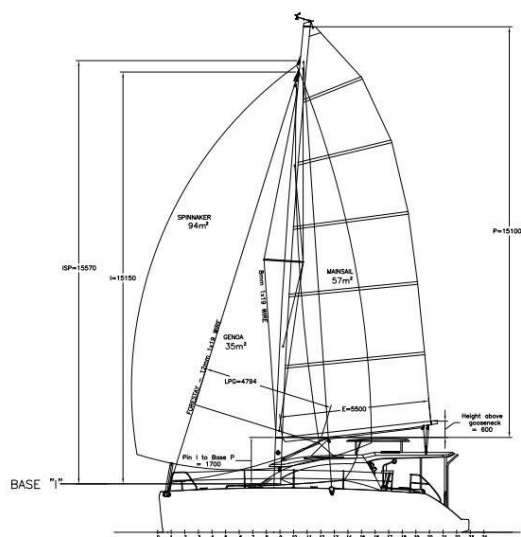


## Catamaran Electronics



### Specification

#### Boat IO

#### (Rev A)



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# 1 Programming

Programming the Boat IO in Python is very simple. Refer to the small program below to see examples of reading the Analog and Digital IO.

```
import smbus
import time
from os import system

bus=smbus.SMBus(1)

**** Digital Output

PCF8574=0x20

***** Digital Input

def PCF8574_input():
    val = bus.read_byte(PCF8574)
    return val

***** Initialize the devices

while True:
    print "Input {0:b} ".format(PCF8574_input())
    time.sleep(1)
```

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