



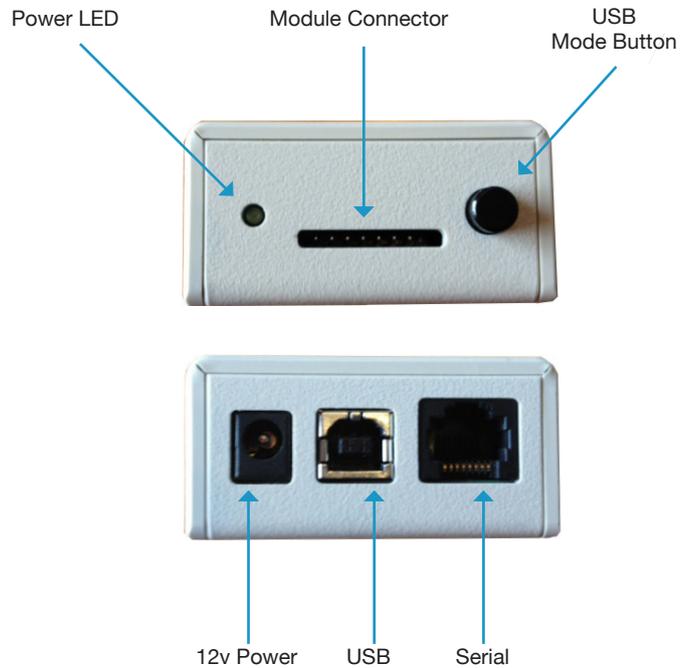
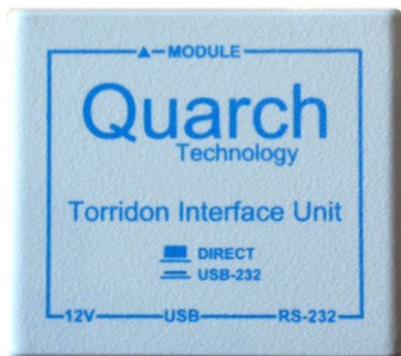
# Torridon Interface Kit

QTL1260

Quick Start



# Interface Kit



## Supplied Parts

### Description

**12v Power Supply**  
Supplies power for the Interface Kit and attached module



**Serial Cable**  
DB-9 Serial Cable for use with Terminal Servers and native serial ports



**USB Cable**  
USB 2 cable for Direct USB or USB virtual COM port control



# 1

## BEFORE YOU START

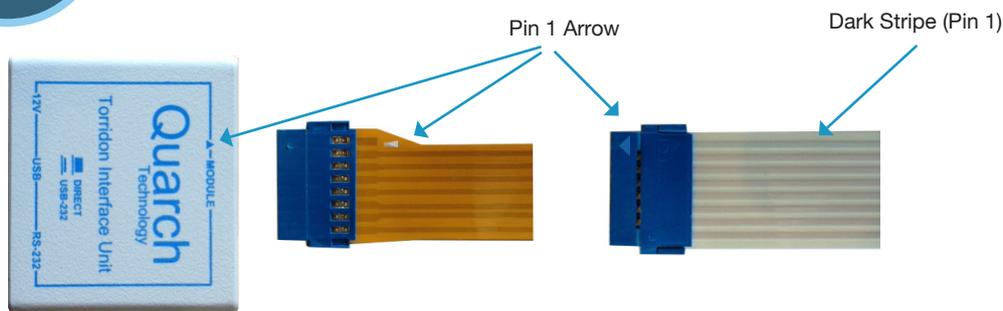
### IMPORTANT

Please ensure that the correct power supply is used with this equipment. These will have the Quarch logo and '12V' on the label.

The PC controlling the Interface Kit, and the device under test should be on the same power supply, with a common ground.

# 2

## SET UP HARDWARE



Insert your module into the Interface Kit, aligning the Pin 1 marks.

Connect the power supply and check that the green power LED is lit.

# 3

## CHOOSE CONNECTION METHOD

### RS-232 Serial

- ▮ Mode Button 'OUT'
- ▮ Connect Serial Cable

Used for Serial Terminal Servers or PCs with a native DB-9 Serial port.

No drivers are needed

### USB-Serial

- ▮ Mode Button 'IN'
- ▮ Connect USB Cable

Creates a virtual COM port. Ideal for PCs that do not have native serial ports.

Requires the FTDI USB Driver

### USB

- ▮ Mode Button 'OUT'
- ▮ Connect USB Cable

NOT supported by all modules.

Requires Quarch or libUSB driver



# 3

## SOFTWARE / SETUP

### Downloads

Serial control can be performed from any standard terminal program:  
Putty, TerraTerm, Python, Perl

Quarch USB drivers for windows can be found here:

<http://quarch.com/file/torridon-driver-win7>

FTDI Virtual COM port drivers can be found here:

<http://www.ftdichip.com/Drivers/VCP.htm>

Torridon Terminal, a simple windows terminal program is here:

<http://quarch.com/file/torridon-terminal>

The TestMonkey control application (controls a single module) is here:

<http://quarch.com/file/testmonkey>

### Serial Port Settings

19,200	Baud
8	Data Bits
1	Stop Bit
No	Parity
No	Flow Control





# 4

## CONTROL

### NOTE

Only ONE connection mode can be in active use at a time  
Connecting via USB will cause the Serial port to be disabled  
With the mode button IN, serial and standard USB will not work  
The Interface Kit will not respond without a Quarch Module

### Sending Commands

Simple ASCII commands are used to control the attached module. These commands are common, across all interfaces/connection modes.

Upon success an action command will respond with:

**OK**

An incorrect command or incorrect command usage will result an error message such as:

**FAIL: 0x15 -Invalid argument**

Commands ending in '?' return data to the user:

### Command Examples

- |                     |   |
|---------------------|---|
| <b>*tst?</b>        | Run self test on the module and return the status |
| <b>help</b>         | View a list of command and available help screens |
| <b>run:power up</b> | Powers up the device (hot-plug modules)           |
| <b>run:power?</b>   | Queries the current power up state                |

This command returns **PLUGGED** or **PULLED**, depending on the current state of the module.

For a full command list, you will need the technical manual for the Module. This can be downloaded from our website: [www.quarch.com](http://www.quarch.com)





# 5

## TROUBLESHOOTING

### Module does not communicate

- 1) Check power supply is connected and power LED is green
- 2) Check Pin 1 marks are aligned
- 3) Check Serial/USB cable is connected
- 4) Check the MODE Button is set correctly

### USB does not work

- 1) Check the MODE Button is set correctly
- 2) Not all modules support direct USB control. 'Lite' modules will never show up in the USB tab of TestMonkey/Torridon Terminal, they are Serial only
- 3) In USB-Serial module (Button pushed in), a virtual COM port is created on the PC. In this mode, you must connect using a Serial connection, NOT a USB connection.

### I need more help

- 1) Check out [quarch.com](https://quarch.com) for application notes and examples
- 2) Email [support@quarch.com](mailto:support@quarch.com) for a quick response
- 3) Call the office direct (UK office hours) on +44 1343 508 140

