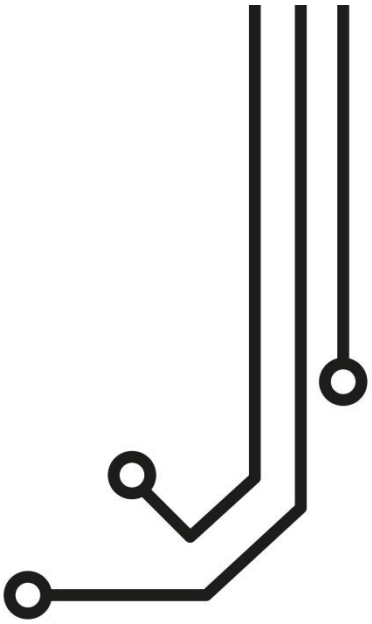
DIGITAL YACHT



AQUA ADAPT MARINE PC

Installation and instruction Manual

1. Introduction

Congratulations on the purchase of your Aqua Adapt PC. It is recommended that your new computer is installed by a professional installer. **The Aqua Adapt PC is 12v ONLY** and must not be connected directly to a 24v DC supply. Please consult your dealer or with Digital Yacht on suitable 24v to 12v DC-DC adaptors.

Due to different battery banks, AC supplies, inverters, grounding, etc. on boats, always connect and disconnect devices and cables to the Aqua Adapt PC with the PC and other devices turned off – particularly USB and Monitor cables.

2. Before you start

You will need the following items and tools to complete the installation:

- A USB Keyboard and Mouse
- A suitable Monitor with HDMI input (or DVI-D but you will need a suitable HDMI to DVI-D cable)
- Access to 12V DC power supply where the unit is to be installed
- Crimps, terminal block or other connectors suitable for connecting DC/Signal wiring
- M3 or M4 screws or other fixings appropriate to the mounting location

If the Aqua Adapt PC has Windows pre-installed, then this will have been authorised with Microsoft during production. If you are installing Windows yourself, don't forget that you will need to authorise the copy of Windows by either connecting the computer to the internet or ringing the Microsoft automated telephone authorisation system.

Other optional items you may wish to have with you during installation include;

- Suitable USB Memory stick for transferring software and data
- A powered USB hub if you intend to connect more than 4 USBs devices to the Aqua Adapt PC
- An external CD/DVD drive that can connect to the Aqua Adapt via USB cable, if you have original CDs/DVDs of software that you wish to install on the Aqua Adapt PC

3. Installation

Before starting installation select a suitable location for the Aqua Adapt PC. The unit is not water resistant and must be mounted in a dry location to avoid contact with water or excessive moisture. When locating the unit you should consider:

- Routing of power, USB and NMEA cables to the unit
- Provision of sufficient space behind the unit for cable connections
- Getting access to the Aqua Adapt PC for plugging in USB devices and loading CDs/DVDs
- Maintaining the compass safe distance of 0.5m

Installation Step 1

- Run a suitable 12v DC supply to the location where the Aqua Adapt PC will be mounted.
- The Aqua Adapt PC consumes < 1.5A at 12v but will consume more power if you are powering lots of USB devices from the Aqua Adapt PC.
- Ensure a suitable in-line fuse is fitted or circuit breaker (maximum 10A).
- Run any USB or NMEA interfacing cables to the location where the Aqua Adapt PC will be mounted, but do not make any connections yet.

The USB Interface Standard specifies that USB cables should be no longer than 5m without using a special powered USB extender cable – ensure that the total USB cable length from the Aqua Adapt PC to any USB device is < 5m.

Installation Step 2

- The Aqua Adapt PC is supplied with two mounting brackets. Use suitable fixings (not supplied) to fix the Aqua Adapt PC to a flat surface – using the dimensions and details shown in the image below. Note that the unit may be installed in any orientation.

Dimensions:

- Height 70mm excluding Wi-Fi Antennas
- Width 200mm including brackets
- Depth 120mm excluding Wi-Fi Antennas and Cables

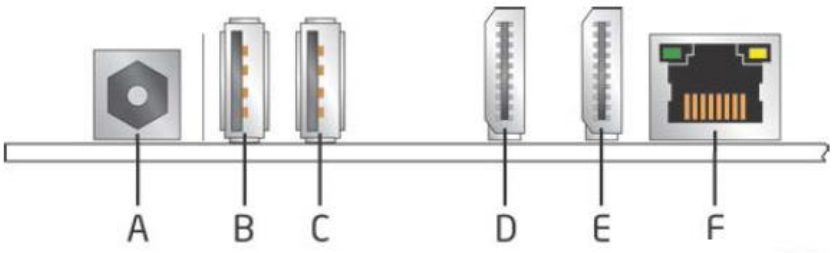
Photo of Aqua Adapt PC Rear Panel

Installation Step 3

- On the rear of the Aqua Adapt PC is a 2.5mm DC jack socket which the supplied power cable should plug in to. . Connect the Red (+) and Black (-) wires in the Power cable to the ship's 12v DC supply.
- **Ensure that the supply is connected via a suitable fuse or suitable circuit breaker (in the positive power connection).** A 5A fuse/circuit breaker is recommended for most installations and 10A is the maximum value that should be used.
- Please note that the Aqua Adapt enclosure is internally connected to the negative supply. **Extreme care should be taken when routing positive supply cables close to the Aqua Adapt** and you should not secure the Aqua Adapt on to a metallic or conductive surface as this may affect the boat's grounding. Always ensure that the Aqua Adapt enclosure and any USB and HDMI cables are not connected to the boat's ground.
- Always power down the Aqua Adapt PC before connecting USB, Network or HDMI cables from other devices.
- Try to ensure that all devices connected to the Aqua Adapt PC are powered from the same boat's DC supply that is powering the Aqua Adapt. This will avoid potentially damaging, differences in ground voltages.
- Do not try to turn on the Aqua Adapt PC yet.

Installation Step 5

- The Motherboard connections on the rear of the Aqua Adapt PC are as follows;



Item	Description
A	8-19 V DC input jack
B	USB 2.0 port
C	USB 2.0 port
D	HDMI connector 2
E	HDMI connector 1
F	LAN

- There are also an additional two USB ports below the motherboard connectors and a USB port on the front of the Aqua Adapt PC, giving a total of five USB ports.
- Connect a USB mouse and keyboard to the any of the five USB ports on the Aqua Adapt PC

- Connect a suitable monitor or monitors to the HDMI connectors on the Aqua Adapt PC. Please note that the right hand HDMI port is Port 1, the primary monitor connection, so if using a single monitor setup, this is the HDMI connector that should be used.

- To connect NMEA devices to the Aqua Adapt PC you will need either;

    - A Digital Yacht USB to NMEA0183 adaptor (P/No.ZDIGUSBNMEA)
    - One of the Digital Yacht Wireless NMEA products; WLN10, NavLink, iNavHub, iAIS or PilotLink
    - A suitable NMEA2000 gateway such as the Actisense NGW-1 or NGT-1

- Once all devices are correctly connected to the Aqua Adapt PC ensure the 12v DC power is connected i.e. the circuit breaker is ON (if fitted). Press the Power switch on the front of the Aqua Adapt PC and the Power and Hard Disk LEDs should come on as the PC starts its power up sequence.

Installation is now complete.