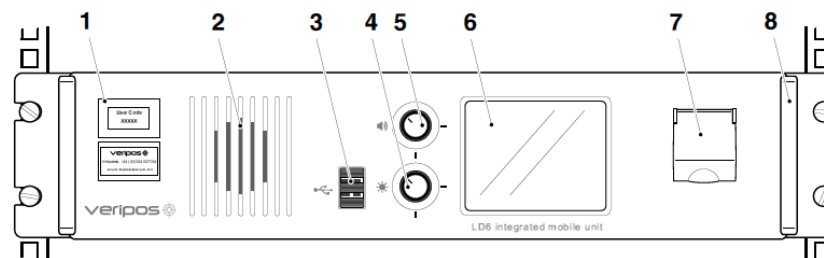




VOSS: <http://help.veripos.com>



LD6 Front Panel Controls

- 1 Labels with Unit ID (above) and phone number to Helpdesk (below)
- 2 Front panel speaker
- 3 3 x USB 2.0 sockets
- 4 Screen brightness control
- 5 Volume control (press to mute/un-mute)
- 6 Colour touchscreen display
- 7 Front panel power on/off switch (with security cover)
- 8 Removable handle (one on each side)

1. Use cables & adaptors supplied:

- 1 x RJ45 patch cable
- 1 x AC power lead
- RJ45 – DB9 female serial converters
- 1 x RJ45 crossover module



2. Antennas: - see LD6 Installation manual for more information.

GNSS (GPS and GLONASS), also capable of MF beacon reception

V460*



L-Band & MF beacon

V86*



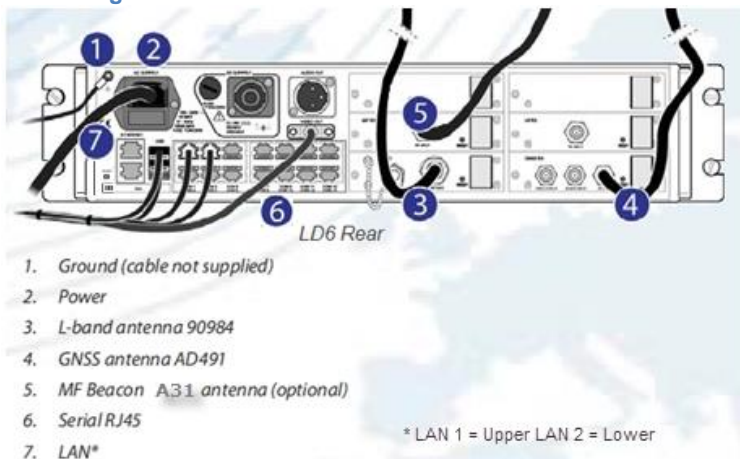
UHF

FCU/6*



*Current standard supply. Other antenna models may have been supplied previously

3. Connecting the LD6 - make connections on the rear of the LD6 as shown;

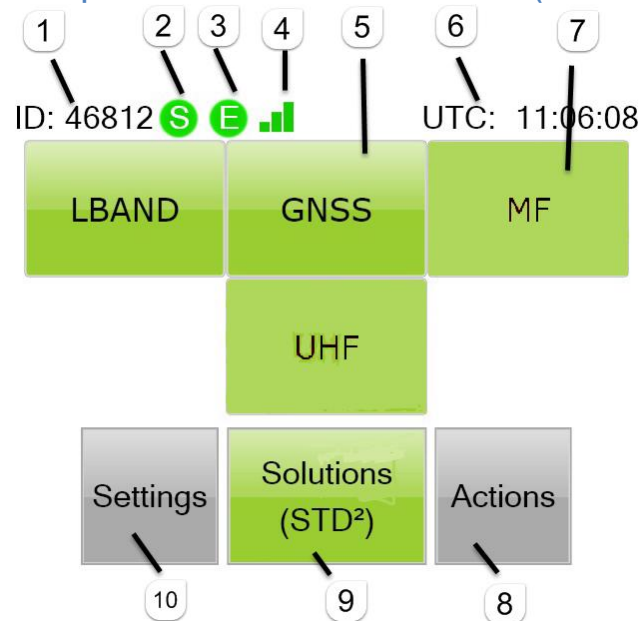


- 1. Ground (cable not supplied)
- 2. Power
- 3. L-band antenna 90984
- 4. GNSS antenna AD491
- 5. MF Beacon A31 antenna (optional)
- 6. Serial RJ45
- 7. LAN*

* LAN 1 = Upper LAN 2 = Lower

Note: At (3) - when not in use the L-band card 50Ω TNC terminator **MUST** be secured to TNC on card.

4. Turn on power and wait until unit has initialized (2-3 mins.);



Key

- 1 LD6 Unit ID (5 digits)
- 2 S – LBand beam Synch Green = yes Red = not synched with beam
- 3 E – VERIPOS corrections Green = enabled Red = not enabled
- 4 LBand signal strength indicator
- 5 Touch screen buttons to access LBand card, GNSS card, optional MF (Beacon SBX receiver) and UHF ADL cards, information and controls. Buttons provide access to each receiver (as fitted).
- 6 LD6 time display (UTC)
- 7 Buttons in red indicates the cards have a configuration or fault condition and are not working to correct limits
- 8 Actions – Shut down, Log Off, Reboot, Factory Reset, Screen(s) calibration, Launch Orion Or Verify-QC software (option)
- 9 Solutions – Status including current position, select the required PPP solution, config of solution and NMEA output selection
- 10 Settings – Set up of position output ports and network configuration

5. Beam Selection

A detailed description is in the LD6 Operations Manual.

Select a Veripos correction satellite beam for your vessel work area:

Beam	Coverage
143.5E	Asia, Australasia, Indian Ocean
IOR	Asia, Indian Ocean, East Africa, Persian Gulf, Caspian Sea
25E	North Sea, Mediterranean Sea, Africa, Persian Gulf, Caspian Sea
AORW	North America, Gulf of Mexico, South America
98W	North America, Gulf of Mexico, South America

For beam selection go to **LBand/Config/Beams/Edit**. Use the up/down arrows to select the required beam for the vessels' work area.



6. Enable for Veripos Corrections

On the Home page check the Sync indicator is Green

You will need to contact the Veripos Helpdesk to request an Access Code and quoting your Unit ID, Service Access Licence (SAL) number and services required.

Navigate to **LBand/AccessCode** to view the current status:





VOSS: <http://help.veripos.com>

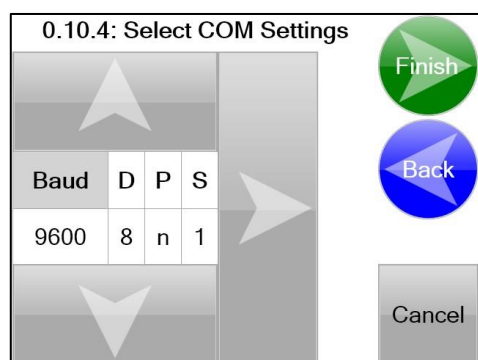
Download a Service Notification Form from <http://help.veripos.com> and use this when contacting the Veripos Helpdesk for an enable access code. Provide details requested and the type of Service(s) you require, e.g. Veripos **Ultra** with **Standard**.

Tel. +44 1224 965900 email: helpdesk@veripos.com

Connecting data outputs from the LD6

Position data is output from the LD6 from the RJ45 serial ports or the 2 LAN Port(s).

Go to **Home / Settings / I/O** and use the **Arrow** buttons to select and note the COM port no. required. Refer to the default COM port settings below and in the LD6 Operation Manual. Select the data parameters required including protocol and baud rate. Touch the **Finish** button when completed.



1. LD6 Internal Solution output

LD6 Internal Solution output

Serial RS232 /422 pin out

DB9 Female Pin no.	RJ45 Male Pin no.
Not connected	1
7	2
Not connected	3
2	4
3	5
5	6
8	7
Not connected	8

Serial port connected to Ships systems

2. LD6 with Verify QC - LAN Solution output (Recommended)

Configure LAN working with Verify QC PC (Windows 7)

On the PC go to **Control Panel/Network and Sharing Settings**.

Click on **Change Adapter Settings** then right-click on the **Local Area Connection** and click **Properties**.

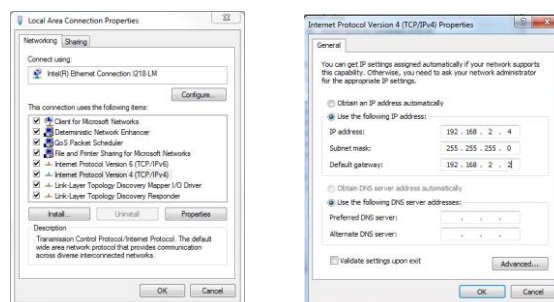
In "**This connection uses the following items:**" window scroll to highlight **Internet Protocol Version 4 (TCP/IPv4)** and click **Properties**.

Select the radio button "**Use the following IP address:**" and enter **192.168.2.4** (or **192.168.3.4** if using LAN2)

Now enter in the "**Default gateway**" the IP address of the LD6 Ethernet port used;

Upper LAN port address is **192.168.2.2**. Lower LAN port address is **192.168.3.3**.

Click **OK** to accept.



For **Win XP**, go to **Control Panel/Network Connections** to set IP.

Configure Verify QC for Client Sockets with the following **LAN ports**;

LD6 LAN Port mapping	
Default output data stream	Port No
RTCMa	9001
GNSS RAW	9012
Option – MF RTCM	9031
Option – UHF RTCM	9051

3. LD6 with Verify QC - Serial Port Solution output (Optional)

Verify QC Serial output

Connected to Verify QC PC via serial ports

Use RJ 45 to D9 serial cables

COM 1 = LBand RTCMa
COM 3 = GNSS Raw
COM 6 = MF*
COM 7 = UHF*

* Optional

The LD6 is capable of running the Verify-QC software onboard the receiver, thus removing the requirement for a separate Verify-QC PC. Refer to the LD6 Operations manual for further information.

Serial ports

Use the default COM port table below when making connections to ships systems.

You can view or amend baud rates, etc. by navigating to **Settings/I/O** and use the onscreen controls.

COM port No.	Source /Baud	Content	Data format
COM1	LBand / 9600	RTCMa	232
COM3	GNSS1 / 115200	Raw	232
COM4	LBand / 9600	RTCMb	232
COM6	MF / 4800*	RTCM	232
COM7	UHF / 38400*	RTCM	232

Other COM ports (COM9 and above) are available for configuration by user.

Serial Data cable pin out

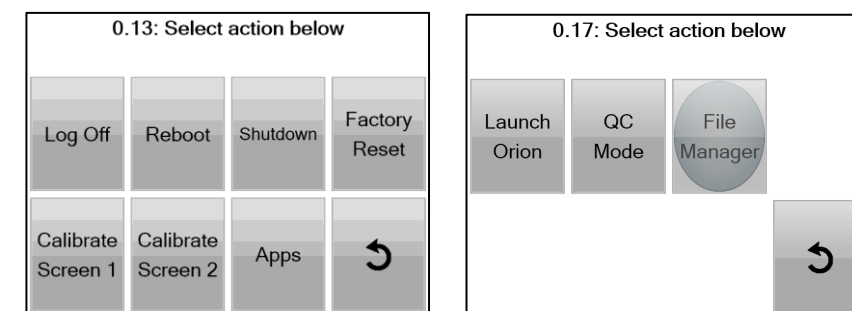
DB9	RS-232	RS422
1	Not connected	Not connected
2	TxD	Tx(-)
3	RxD	Rx(+)
4	Not connected	Not connected
5	Signal ground	Signal Ground
6	Not connected	Not connected
7	Not connected	Tx(+)
8	Not connected	Rx(-)
9	Not connected	Not connected

Launch Orion DP software

Where this software is installed on the LD6, attach a touchscreen monitor to the VGA port and plug in the USB connection.

Power cycle the LD6 for the screen to be recognized, then go to **Actions/Calibrate screen** for 1 & 2 then **Launch Orion**.

Note: After connecting a VGA monitor, Screen 1 (LD6 screen) may require to be calibrated. If so, select 'Calibrate Screen 1' and follow on-screen prompts.



Shut Down

To shut down the LD6 go to **Actions/Shutdown/Yes** and allow to power down.

Once completed switch off using the front panel switch.