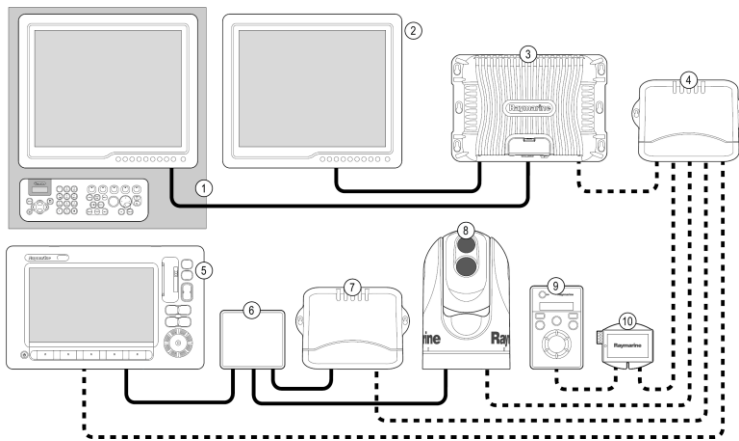


Product Description:	E SERIES WIDESCREEN / G SERIES GPM400
Compatible Software(s):	v2.49 / v4.49
Subject:	SYSTEM INTEGRATION

With the release of v2.49 for the E Series Widescreen Multi Function display products (reference: Technical Update TU447) and v4.49 for the G Series / GPM400 products (reference: Technical Update TU448), when up-issuing the application software in both Multi Function products series, this combination of software enables the integration of a maximum of two E Series Widescreen Multi Function display products (E90W, E120W or E140W) within a G Series / GPM400 system, networking the E Series Widescreen Multi Function displays to the G Series system using **SeaTalk^{hs}**.

Please note there are a number of limitations that need to be in place in order to maintain and ensure a reliable data network is achieved between the E Series Widescreen Multi Function display products and the G Series system, full details of the limitations are provided as follows:

The following schematic illustrates a typical E Series Widescreen display unit networked into a G Series system:



- (1) G Series Monitor & Command Keyboard
- (2) G Series Monitor
- (3) GPM400
- (4) SeaTalk^{hs} Network Switch
- (5) E Series Widescreen display
- (6) Video Distributor Amplifier*¹
- (7) GVM400
- (8) T Series Thermal Camera
- (9) Joystick Control Unit
- (10) PoE Injector
- SeaTalk^{hs} Cable*²

NOTE: *¹ Not supplied by Raymarine / *² Ethernet cable between (9) & (10) is a PoE cable supplied with the JCU

DISTRIBUTION LIST:

- RAYMARINE & SUBSIDIARY
- DISTRIBUTOR & SERVICE DEALER
- INSTALLING DEALER
- BOATBUILDER / OEM
- KEY STOCKIST / RETAILER
- Add to Raymarine website – Dealer Area
- Generate FAQ – Raymarine website – Public Area

INFIELD ACTIONS:

- ACTION AT NEXT ROUTINE SERVICE
- HOLD STOCK
- REWORK STOCK
- RECALL STOCK
- RECALL CUSTOMER PRODUCT

NETWORKING LIMITATIONS



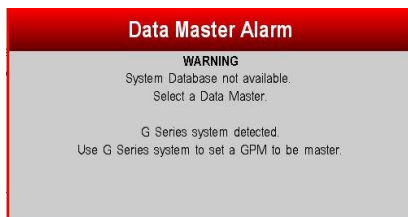
Again, the key in achieving a reliable and satisfactory data network between the E Series Widescreen Multi Function displays and the G Series navigation system, there are a number of limitations and operating aspects that need to be adhered and aware in order to maintain full functionality and operation through the combined data network, full details provided as follows:

INSTALLATION

The E Series Widescreen Multi Function displays...:

- **MUST NOT** exceed a maximum of **2** E Series Widescreen displays in a network system
- **MUST** be connected to the G Series navigation via **SeaTalk^{hs}**
- can be connected via NMEA0183, however, recommendation is to use **SeaTalk^{hs}** **ONLY** to minimise data conflicts
- **MUST NOT** be connected across the E Series Widescreen / G Series network using **SeaTalk¹** and/or **SeaTalk^{ng}**

DATA MASTER



- the GPM400 (or one of...) unit will **ALWAYS** act as the data master, the E Series Widescreen **CANNOT** be configured as the data master as this will disrupt full operation through the data network
- at initial power-on of the integrated G Series / E Series Widescreen system, the E Series Widescreen will display a **Data Master Alarm** warning advising that the G Series System has been detected and the network is waiting for the GPM400s of the G Series system to fully boot to the HOME page and at this point, the alarm warning will clear from the display

NAV STATION

- When setting the G Series navigation stations through the System Configuration menu option, it is **NOT** possible to configure the E Series Multi Function display(s) as part of the nav station configuration

HOME SCREEN



For a networked system consisting of E Series Widescreen Multi Function display products within a G Series GPM400 navigation system...:

- the E Series Widescreen Multi Function display products will share the same home screen
- the G Series GPM400 networked units will share the same home screen
- networked E Series Widescreen Multi Function display and G Series GPM400 units **WILL NOT** share home screens

CARTOGRAPHY

Embedded cartography...

- **CANNOT** be shared between the E Series Widescreen Multi Function display and G Series GPM400 data network
- can be shared between the E Series Widescreen Multi Function display units in the same network system
- can be shared between the G Series GPM400 units in the same network system

Navionics cartography supplied on CompactFlash™ media card...

- is shared across E Series Widescreen Multi Function display units and G Series GPM400 units contained in the same data network system
- when inserted into the card slot of the E Series Widescreen Multi Function display unit and/or the G Series GPM400 unit, the cartography available on the card will prioritise over the embedded cartography

RADAR

- the G Series system supports simultaneous use of two HD / SHD Digital Radar systems
- an E Series Widescreen display unit within a G Series system can only operate a single radar system at any one time; in order to use the second radar system, the serial number of the second radar system must be selected in the Radar Setup menu (when two digital radar systems are connected, the second radar system can be powered-down at any time using the radar power controls, accessible from the E Series Widescreen display power key)
- the rotating radar system icon in the status bar indicates the status of all connected digital radar systems, not just the current operational radar system
- if a G Series Compact Keyboard connected to an E Series Widescreen display unit, the radar status LED located on the keyboard reflects that status of all connected digital radar systems

G SERIES KEYBOARD

- if the G Series Command Keyboard or the Compact Keyboard is being used to control the E Series Widescreen display unit(s), the keyboard **MUST** be connected to a SeaTalk^{ng} cable system **ONLY** connected to the E Series Widescreen display units; remembering **NOT** to connect the SeaTalk^{ng} cable system across to the G Series GPM400 system

GPS

- a networked E Series Widescreen / G Series GPM400 system **DOES NOT** support multiple GPS receivers

VIDEO

- composite (or s-video) video inputted directly to the video input of the E Series Widescreen and/or to the video input of the GVM400 used in the G Series system **WILL NOT** be shared across the SeaTalk^{hs} data system; if the composite (or s-video) video is required to be shared across the E Series Widescreen / G Series network, the output of the video source will be need to be actively distributed across the network using a Video Distribution Amplifier (through an isolated power supply) as illustrated as item (6) on the schematic located on page 1

POWER SUPPLY / GROUNDING REQUIREMENTS

- please refer Power connection, Breakers, fuses and circuit protection and Grounding requirements chapters in the T Series Installation Handbook (document #87125_1) for full details and advice on adequate power supply and grounding of the T Series thermal camera products