

SUPPORT SERVICES, SYSTEM INTEGRATION
PROTOTYPING, PRODUCT DEVELOPMENT

MULTI-FUNCTION CONSOLE



The **Composite Multi-function Console** is a sophisticated generation of consoles designed for naval and marine operations. It is constructed from a lightweight, fire-retardant composite material that is shielded for EMI protection.

The console is optimised for ease of maintenance allowing all internal components to be accessed via the front of the console. The internal computer can be brought forward, accessed or replaced via the hinged 30" display. All HMI components are customisable to adapt to the customer's requirements.

MFC TECHNICAL HIGHLIGHTS

- Up to 30" high-resolution flat-panel display
- 12.1" resistive touch screen
- Intel Xeon 2.4GHz 19" rack-mountable computer
- LED backlit 109-key keyboard with 50mm laser trackball
- Removable 3-axis, 2-button joystick
- Lightweight, fire-retardant construction
- EMI/EMC protection
- Customisable pushbutton panel
- Shockmounts
- Anti-condensation heating
- Ease of maintenance
- All internal components accessible from the front of the console
- Multiple mount options available



MULTI-FUNCTION CONSOLE

PHYSICAL SPECIFICATIONS	
Height (with pedestal)	1415mm
Height (without pedestal)	810mm
Width	780mm
Depth	855mm
Mass	60-90kg, configuration dependant
Mount options	Pedestal, bulkhead and desk mount options
EQUIPMENT SPECIFICATIONS	
Display	Up to 30" LCD display, 2560x1600 resolution, 16:10 aspect ratio
Touch Panel	12.1" LCD display, 5 wire resistive touch screen, 1280x800 resolution, 16:10 aspect ratio
Processing Unit	<ul style="list-style-type: none"> - Intel Xeon 2.4GHz, quad core (single or dual processors) with up to 96GB memory and dual Gigabit LAN (processor upgradable to user requirements) - Compact 19" rack-mountable case, easily accessible and removable from the front of the console
HMI	<ul style="list-style-type: none"> - Keyboard: LED backlit 109-key with removable 50mm laser trackball - Joystick: 3axis, 2 button (removable panel allows alternative joystick) - Customisable pushbutton panel: Allows for custom switches, communication interfaces, headphone jacks etc.
ENVIRONMENTAL SPECIFICATIONS	
Operating temperature	0° C to 50° C
Cooling	Forced air convection. Optional upgrade to water cooling
Anti-condensation heating	Electronic temperature and humidity monitor and regulator
Shock and vibration	Shock mounts to protect against shock and vibration. Note: Shock and vibration still to be characterised
EMC	Built to protect against EMI – screened composite frame and apertures Note: EMC still to be characterised
Ingress Protection	Built to protect up to IP20 Note: Ingress Protection still to be qualified
Magnetic	Constructed from low magnetic materials and suitable for mine-hunting vessels