ADA compliant, tactile keypad for audible system navigation

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Storm Assistive Technology Products provide improved accessibility for those with impaired vision, restricted mobility or limited fine motor skills.

Self-service terminals usually present information about available products or services via an electronic display or touch screen. Presentation of information in this exclusively visual format discriminates against those with impaired vision or reading difficulties. NavBar™ is a highly tactile interface that makes audio navigation and selection of screen based menus possible. Audible descriptions of available menu options are communicated to the user through a personal headset, handset or cochlea implant. Menus can be navigated and selections made by pressing distinctively shaped tactile keys.

All dimensions in mm
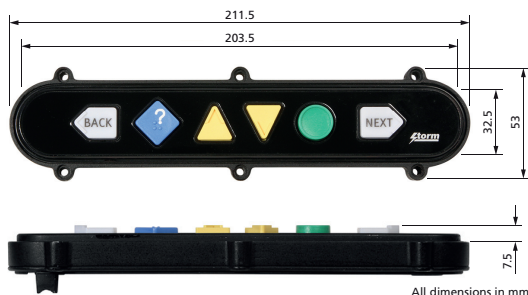
Environmental

Vibration & Shock:	**ETSI 6M3**
Impact Resistance:	**IK09 (10J Rating) (when correctly installed to a panel)**
Sealing:	**IP65 (when correctly installed to a panel)**
Operational temperature:	**-20°C to +70°C (dry)**
Weather Resistance:	**IP65 (when panel mounted)**

Performance

Operational Key Life:	**>4 million cycles per key**
Certification:	**CE / FCC / UL**

Specification

Rating:	**5V +/- 0.25V (USB 2.0)**
Connection:	**Mini USB B Socket**
Audio:	**3.5mm Audio Jack Socket (Illuminated)**
Ground:	**150mm ESD ground wire fitted to Audio Module**
USB Cable	**Not included**
Interconnect Cable	**0.75m cable (NavBar to Audio Module) included with Audio Module**

The version shown above is designed for under-panel installation. A surface mounted version is also available. Successful implementation of the NavBar™ requires a compliant host application featuring synthesized or recorded human voice audio content.
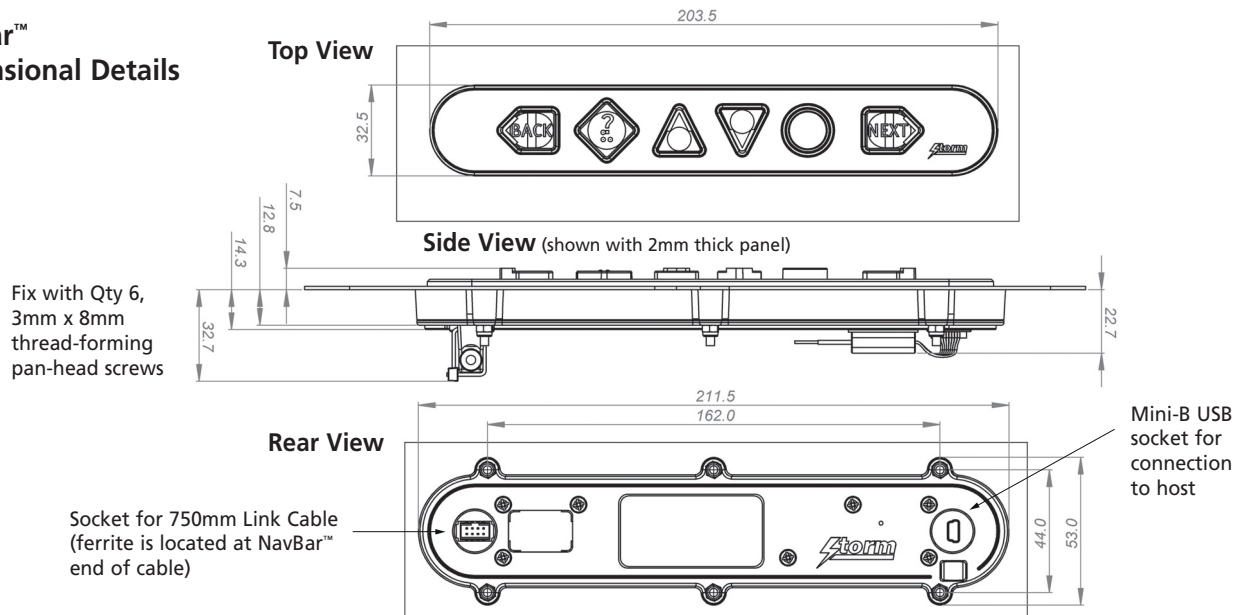
NavBar™ was developed in association with the Trace Research & Development Center with support from the University of Wisconsin. NavBar™ is a compliant tactile interface device for use as part of an ADA audible menu navigation system or EZ-Access® implementation.

- Space efficient horizontal format for use with contemporary touch-screen kiosks.
- Audible references to a key's position and function are easier to understand. For example: 'The circular shaped 'select' key is the second key from the right'.
- Distinctive keytop shapes and tactile symbols help to identify each key's specific function.
- Colour coded keys make identification of key function easier for those with partial vision.
- NavBar™ can be specified in fully illuminated or partially illuminated configurations.
- The intensity of keytop illumination can be adjusted or turned off when not in use.
- Illuminated keytops are lit by a dedicated LED light source. Each LED is independently controllable.
- The NavBar™ utility software, allows the default illumination status and device 'wake-up' behaviour to be configured. USB key-press codes and default sound volume settings can also be changed.
- The optional Audio Module features accessible sound volume controls and an illuminated jack plug socket for headset connection. (Audio Module supplied separately).
- The Audio Module can be positioned separately from the NavBar™ to optimize system ergonomics and accessibility.
- Audio Module is connected to the NavBar™ via a ribbon cable (supplied).
- NavBar™ is connected to the host system via a single USB cable (supplied separately).
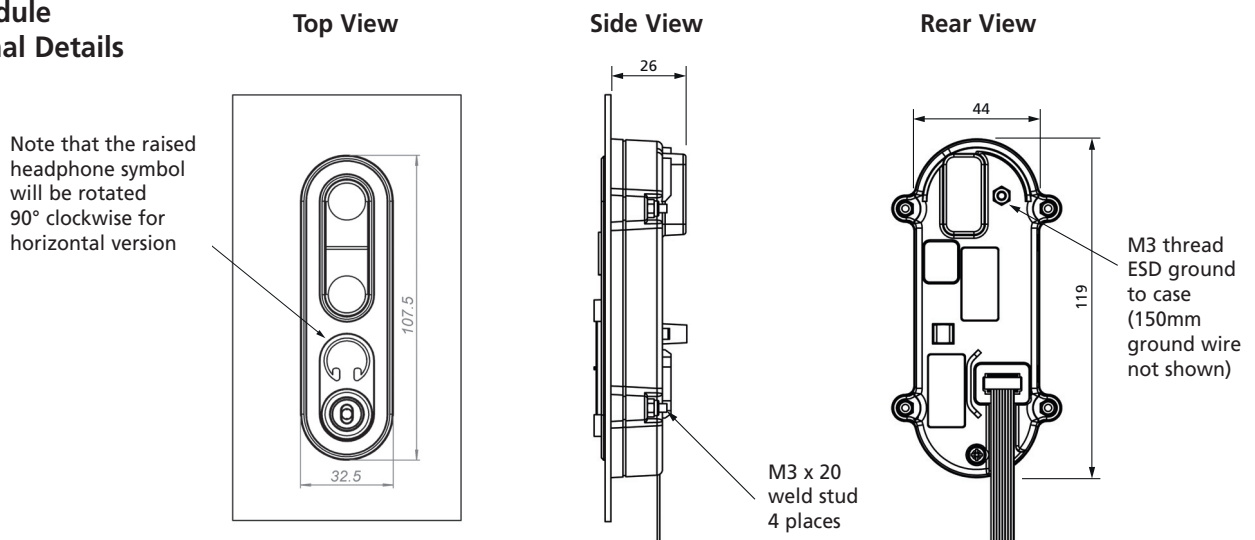
NavBar™ Dimensional Details

Top View

203.5

32.5

Side View (shown with 2mm thick panel)

7.5
12.8
14.3
32.7

22.7

Fix with Qty 6, 3mm x 8mm thread-forming pan-head screws

Rear View

211.5
162.0

Socket for 750mm Link Cable (ferrite is located at NavBar™ end of cable)

Mini-B USB socket for connection to host

44.0
53.0

Audio Module Dimensional Details

Top View

Side View

Rear View

Note that the raised headphone symbol will be rotated 90° clockwise for horizontal version

26

44

107.5

32.5

M3 thread ESD ground to case (150mm ground wire not shown)

119

M3 x 20 weld stud 4 places

Part Numbers

NavBar™ Silver with White Keys (fully illuminated), Surface Mount	**EZB6-43000**
NavBar™ Silver with White Keys (fully illuminated), Under-panel	**EZB6-43002**
NavBar™ Black with White Keys (fully illuminated), Surface Mount	**EZB6-53000**
NavBar™ Black with White Keys (fully illuminated), Under-panel	**EZB6-53002**
NavBar™ Silver with Coloured Keys (partially illuminated), Surface Mount	**EZB6-73000**
NavBar™ Silver with Coloured Keys (partially illuminated), Under-panel	**EZB6-73002**
NavBar™ Black with Coloured Keys (partially illuminated), Surface Mount	**EZB6-63000**
NavBar™ Black with Coloured Keys (partially illuminated), Under-panel	**EZB6-63002**
Audio Module (Vertical) Silver, Interconnect Cable	**EZB2-40500**
Audio Module (Horizontal) Silver, Interconnect Cable	**EZB2-405H0**
Audio Module (Vertical) Black, Interconnect Cable	**EZB2-50500**
Audio Module (Horizontal) Black, Interconnect Cable	**EZB2-505H0**

Accessories

Spare Interconnect Cable, 0.75m	**EZB2-01**
USB Cable, Mini-B to Type A, 0.9m	**4500-01**

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