



WORLD LEADERS IN INTERACTIVE VOTING TECHNOLOGY

# CONNECTOR TECHNICAL SPECIFICATIONS

## Technical Specifications

### Audio

Internal microphone	Microphone type: Electret Condenser Directivity: Hypercardioid
In-built personal speaker	Diameter: 32 mm Power Output: 1.0 Watt
Number of transmission channels	8
Frequency response	50 Hz to 15 kHz
Headset socket	Connection: 4-pole 3.5mm mini-jack socket Channels IN: 1 (electret microphone) Channels OUT: 2 (headset)
Docking connector audio connections	Connection: 18-pin Hirose socket Channels IN: 2 Channels OUT: 2

### User Interface

Keyboard type	QWERTY
Input controls	Trackball with momentary switch. 10 numeric keys 0 - 9 26 alpha keys A - Z 5 control keys Space, symbol, case, return and backspace 3 audio keys Microphone on/off, headphone volume up and headphone volume down 2 soft keys Left = red triangle, right = green square
Independent backlight keyboard zones	<i>Zone</i> <i>Colour</i> Alpha, numeric and control keys White Microphone and headset volume keys White Left and right soft keys Red and green Trackball Blue
Language support	Extended Western and Eastern character sets.

### Display

Screen type	OLED
Colour mode	Full colour (64K)
Diagonal size (inches)	2.4
Resolution (pixels)	320 x 240
Orientation	Landscape

### Smartcard Reader/Writer

Compatible smartcards:	ISO7816 parts 1, 2 and 3 (Synchronous and Asynchronous)
Voltage:	Supports 5V (Class A), 3V (Class B) and 1.8V (Class C) cards

## Digital Radio

Frequency	2.4 GHz
Range	100 metres.
Antenna	Internal antenna.
Network connect time	Less than 10 seconds.
Interference prevention	Frequency hopping protocols and audio click suppression provide high robustness to interference.
Encryption	Proprietary

## Performance

Microprocessor	ARM microprocessor
RAM	64MB
Flash memory	1GB
USB connectivity	USB 2.0 High Speed Compliant.

## Indicators

Status light	Type: LED Colours: RGB Mounted: Front
Tally light	Type: LED Colours: RGB Mounted: Top
Sounder	Polyphonic tones from internal speaker.
Rumbler	For silent alerts.
Ambient light sensor	Can automatically dim display, trackball and keyboard backlighting.
Accelerometer	3D accelerometer provides device motion/orientation detection.
Real time clock	Battery backed real time clock maintained whenever battery is present. Automatically synchronised to system time when connected.

## Power Management

Internal battery	Type: Lithium polymer Capacity: 1800mAh Rechargeable: Yes Replaceable: Yes Monitoring: Hardware allows the battery capacity to be accurately monitored during charging and usage Protection: Over current and internal temperature sensor
Battery life	Full day typical data and audio usage.
Charging methods	PC: Charges single device via bespoke USB cable. Multi Dock: Charges up to 50 devices via mains power. Mini Dock: Charges up to 10 devices via external power. Desk Dock: Charges single device via external power or USB.
Operation	Handset is fully operational whilst charging.

## Enclosure

Materials	Moulded ABS.
Dimensions (mm)	Width: 80 Height: 118 Depth: 26
Weight (g)	198
Colours	Dark grey, satin and black.
Attachments	Top right pin: Detachable wrist strap/lanyard Bottom pin: Optional neck strap
Desktop foot	Non slip rubber.

## Labels

External label	Unique serial number, barcode, approvals, patents and company information.
Battery label	Approvals and safety information.
Boot screen	Required legal information.

## Environmental

Operating temperature	0°C to 40°C
Storage temperature	-10°C to 50°C

## Approvals

CE
FCC

## Patents

Patents granted	Australian: 2003260688 UK: 2392056, 2425442, 2425692 Hong Kong: HK1062623 South African: 2005/02186
Patents pending	Australian: 1001189.8, 1001190.6 Canadian: 2009236037 European: 2504815 UK: 03787856.8 Japanese: 2004-528629, 2009-174216 US: 10/238683, 12/574436