



S3 Personal Safety Wristwatch

Wristwatch phone and tracker for cognitively impaired persons!



- 3G/2G phone in an analog wristwatch
- Single button SOS call with location
- No movement alarm
- GPS and beacon indoor location
- Safe zone exit alarm
- Battery low and critical alarms
- Long battery life

NAVIGIL S3 wristwatch has been designed for persons who may face a situation where they need help in order to manage their daily life independently. Wristwatch wearer can safely go about with the knowledge that caregivers are only one phone call away. Caregivers can enjoy peace of mind knowing that the loved one is always reachable and if necessary locatable using the Navigil S3.

Stay in touch

Navigil S3 can receive calls from white listed phone numbers using the inbuild speaker and microphone. Incoming calls can be automatically answered by Navigil S3 if required. Wristwatch user can also make help request calls to a list of family and friends. Wristwatch users who have good dexterity can also make normal phone calls to persons in the white list.

Detect changes in level of activity and routines

Activity reports can be used to identify persons whose level of activity or daily routines are changing. This enables implementation of preventive actions that improve wearer's quality of life while providing peace of mind to caregivers.

Location tracking outdoors and indoors

Outdoors Navigil S3 uses a GPS receiver to determine the location of wristwatch wearer. Tracking can be either continuous or only when the watch wearer requires help. Beacons can be used to provide accurate indoor location. A-GPS support enables GPS receiver to acquire location information very fast and even in challenging conditions. Safe zones can be used to alert family members of watch wearer's exit from the area considered safe.

Easy to deploy

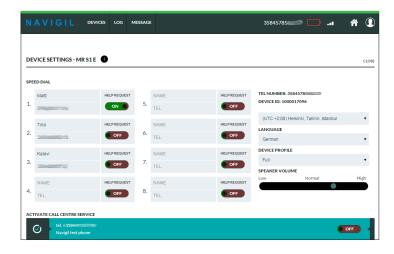
Navigil S3 comes with a SIM card pre-installed - simply configure the phone numbers and Navigil S3 is ready to go. Navigil S3 has profiles and configurations for various type of use cases. Richness of the user interface and default settings for each use case can be defined in a configuration.



S3 Personal Safety Wristwatch

Industry benchmark footprint and functionality

Modem type			
Sensitivity Acquisition -148 dBm, navigation -162 dBm	Mobile comms	Modem type	Tri band 3G/GSM/GPRS/EDGE/UMTS/HSPA+ (EU and US versions)
Sensitivity Acquisition -148 dBm, navigation -162 dBm A-GPS A-GPS A-GPS assistance (up to 28 days) BLE Bluetooth Low Energy communication with home and mini beacons MCU Processor ARM Cortex-M3, 512 kbytes (total code memory) RAM & flash G4 kbytes (total RAM), 8 Mbytes (total data flash) Audio Microphone / speaker Adjustable gain and volume control User interface Wearer profiles Auto, easy, full and tracking profiles Adjustable UI Selected profile enables/disables UI features Watch Analog watch, two software controllable hands Buttons Crown, emergency call, speed dial and yes/no/up buttons LEDS 3 user interface / status LEDs Other Two row OLED display, speaker, vibrator Sensors Onboard 3D accelerometer, temperature Battery Li-ion 500 mAh Operation time Phone always on Typical 1 - 4 days, depending on use profile and conditions Software features Data communication SMS, USSD, GPRS, HSPA+ with message buffering on data flash Over-the-air updates Configuration, parameters, safe zone, firmware and boot loader Red Alert Watch wearer initiated Red Alert call to Alarm Receiving Centre Amber Alert Watch wearer initiated Red Alert call to recording service User initiated phone calls Receiving phone calls Automatically or by user accepted calls, white list access control Automatic alarms No movement, man down, danger zone entry (beacon) Other alarms Battery critical, battery low Wearer statistics including duration of very active, active, little movement, at beacon range by zone, out of beacon range periods Event reports Periodic status, amber and red alert reports Temperature range Operation User -20°C - +60°C, S1 charging 0°C - +45°C Certifications Available versions S3 EU 3G/2G, US 3G/2G several wristwatch and strap designs Silicone strap for rough environment Splash water protected, standard strap, 22 mm interface Dimensions S3 Diameter 48 mm, thickness 17 mm, weight 65 gr. (normal strap) Beacons		Communication	SMS, FTP, HTTP, TCP, UDP, USSD
A-GPS A-GPS assistance (up to 28 days) Short range comms BLE Bluetooth Low Energy communication with home and mini beacons MCU Processor ARM Cortex-M3, 512 kbytes (total code memory) RAM & flash 64 kbytes (total RAM), 8 Mbytes (total data flash) Audio Microphone / speaker Adjustable gain and volume control User interface Wearer profiles Auto, easy, full and tracking profiles Adjustable UI Selected profile enables/disables UI features Watch Analog watch, two software controllable hands Buttons Crown, emergency call, speed dial and yes/no/up buttons LEDS 3 user interface / status LEDs Other Two row OLED display, speaker, vibrator Sensors Onboard 3D accelerometer, temperature Battery Li-ion 500 mAh Operation time Phone always on Typical 1 - 4 days, depending on use profile and conditions Software features Over-the-air updates Configuration, parameters, safe zone, firmware and boot loader Red Alert Watch wearer initiated Red Alert call to Alarm Receiving Centre Amber Alert Watch wearer initiated Amber Alert call to recording service To alarm receiving centre and up to 8 speed dial numbers Receiving phone calls Automatically or by user accepted calls, white list access control Automatic alarms No movement, man down, danger zone entry (beacon) Other alarms Battery critical, battery low Activity statistics Wearer statistics including duration of very active, active, little movement, at beacon range by zone, out of beacon range periods Event reports Periodic status, amber and red alert reports Temperature range Operation Use: -20°C - +60°C, 51 charging 0°C - +45°C Remperature range Sa Eu 3G/2G, US 3G/2G several wristwatch and strap designs silicone strap for rough environment Sa Diameter 48 mm, thickness 17 mm, weight 65 gr. (normal strap) Beacons Charging dock Easy to use charging dock with beacon functionality	GNSS	Receiver type	GPS/GLONASS receiver, SBAS WAAS/EGNOS/MSAS support
Bluetooth Low Energy communication with home and mini beacons		Sensitivity	Acquisition -148 dBm, navigation -162 dBm
Beacons		A-GPS	A-GPS assistance (up to 28 days)
RAM & flash Audio Microphone / speaker Adjustable gain and volume control Wearer profiles Auto, easy, full and tracking profiles Adjustable UI Selected profile enables/disables UI features Watch Analog watch, two software controllable hands Buttons LEDs Juser interface / status LEDs Other Two row OLED display, speaker, vibrator Sensors Onboard Battery Li-ion Operation time Phone always on Typical 1 - 4 days, depending on use profile and conditions Over-the-air updates Configuration, parameters, safe zone, firmware and boot loader Red Alert Amber Alert Watch wearer initiated Amber Alert call to Faceiving Centre Automatic alarms No movement, man down, danger zone entry (beacon) Other alarms Battery critical, battery low Activity statistics Wearer statistics including duration of very active, active, little movement, at beacon range by zone, out of beacon range periods Event reports Periodic status, amber and red alert reports Temperature range Certifications Available versions Sa Eu 3G/2G, US 3G/2G several wristwatch and strap designs Silicone strap for rough environment Enclosure Say Diameter 48 mm, thickness 17 mm, weight 65 gr. (normal strap) Beacons Charging dock Easy to use charging dock with beacon functionality	Short range comms	BLE	
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User interfaceWearer profilesAuto, easy, full and tracking profilesAdjustable UISelected profile enables/disables UI featuresWatchAnalog watch, two software controllable handsButtonsCrown, emergency call, speed dial and yes/no/up buttonsLEDs3 user interface / status LEDsOtherTwo row OLED display, speaker, vibratorSensorsOnboard3D accelerometer, temperatureBatteryLi-ion500 mAhOperation timePhone always onTypical 1 - 4 days, depending on use profile and conditionsSoftware featuresData communicationSMS, USSD, GPRS, HSPA+ with message buffering on data flashOver-the-air updatesConfiguration, parameters, safe zone, firmware and boot loaderRed AlertWatch wearer initiated Red Alert call to Alarm Receiving CentreAmber AlertWatch wearer initiated Amber Alert call to recording serviceUser initiated phone callsVatch wearer initiated Amber Alert call to recording serviceUser initiated phone callsAutomatically or by user accepted calls, white list access controlAutomatic alarmsNo movement, man down, danger zone entry (beacon)Activity statisticsWearer statistics including duration of very active, active, little movement, at beacon range by zone, out of beacon range periodsEvent reportsPeriodic status, amber and red alert reportsTemperature rangeOperationUse: -20°C - +60°C, S1 charging 0°C - +45°CCertificationsRoHS, CE, 99/5/ECAvailable versionsS3EU 3G/2G, US 3G/2G several wristwatch and strap designs Silicone		RAM & flash	64 kbytes (total RAM), 8 Mbytes (total data flash)
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Silicone strap for rough environment Enclosure S3 Splash water protected, standard strap, 22 mm interface Dimensions S3 Diameter 48 mm, thickness 17 mm, weight 65 gr. (normal strap) Beacons Charging dock Easy to use charging dock with beacon functionality	Certifications		RoHS, CE, 99/5/EC
DimensionsS3Diameter 48 mm, thickness 17 mm, weight 65 gr. (normal strap)BeaconsCharging dockEasy to use charging dock with beacon functionality	Available versions	S3	
Beacons Charging dock Easy to use charging dock with beacon functionality	Enclosure	S3	Splash water protected, standard strap, 22 mm interface
	Dimensions	S3	Diameter 48 mm, thickness 17 mm, weight 65 gr. (normal strap)
Battery beacons Indoor location information	Beacons	Charging dock	Easy to use charging dock with beacon functionality
		Battery beacons	Indoor location information



Key features are:

- Mobile phone with speaker and microphone
- Status of wearer's location: at home or GPS location
- Alarm on of beacon range and safe zone exits
- Activity statistics can be used to identify changes in wearer's daily routines