TS8550i

TOUCHSCREEN MOBILE COMPUTER

RUGGED BY DESIGN

The **TS8550i** is a 'Tour de force' in both design and ingenuity, suitable for rigorous use in the most extreme conditions. The metal alloy chassis combined with high impact polycarbonate plastics and highly durable, hard-capped keys ensure that the **TS8550i** provides industry leading ruggedness and reliability.

IMPACT PROTECTION

The **TS8550i** hand held terminal is continually subjected to shockwaves and vibration when in use within a warehouse and logistics operation. Vibration and shock can have an adverse effect on electronic components, which in turn can limit the useful life of a mobile terminal. TouchStar are unique in incorporating Sorbothane® into the design, eliminating these shockwaves by totally isolating components from the outer case. The **TS8550i** is therefore capable of being used in robust environments providing an extremely reliable solution and prolonged life.

On impact, the Sorbothane® material deforms to disperse the shock waves laterally, immediately returning to its initial form to be fully operational in time for the next impact.

RUGGED ALLOY CHASSIS

SORBOTHANE®

OTHER DESIGN FEATURES THAT MAKE THIS TS8550i THE MOST RUGGED TERMINAL IN ITS CLASS:

- IP54 rating for full protection against dust, water and oil ingress
- Survives 1.5m drops on to concrete
- Operates in wide temperature extremes (-20°C to +50°C)
- Rugged polycarbonate touchscreen
- High impact shock absorbers

Our designers have worked hard to achieve industry-leading ruggedness to ensure that the **TS8550i** withstands the most extreme environments.

FOR EVERY APPLICATION

The **TS8550i** is powered by the latest high-speed processor technology. Available with an array of communication options, the **TS8550i** supports Wi-Fi 802.11a/b/g/n and Bluetooth 2.1, enabling users to stay connected wherever they are and whatever task they are performing.

RUGGED AND DYNAMIC

The **TS8550i** integrates feature rich functionality into a well-balanced and lightweight design providing ultimate operator comfort in scan intensive environments. The dynamic data collection capabilities of the high resolution barcode readers, high performance colour 3M pixel camera and rugged touchscreen, combine to provide startling productivity and efficiency gains for all supply chain scenarios.

The **TS8550i** is compliant with the ATEX Directive. The directive covers equipment used in petrochemical plants, mines, flour mills and other areas where a potentially explosive atmosphere may be present. The unit has Zone 2 certification which means it can be used in an atmosphere where a mixture of air and flammable substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for only a short period.

PROVEN PERFORMANCE

The **TS8550i** offers superior real-time data collection and scanning that will facilitate operational efficiency gains within specialist sectors such as:

OIL AND GAS

MINING

PHARMACEUTICAL MANUFACTURING

TS8550i
TOUCHSCREEN MOBILE COMPUTER

Technical Specification

PHYSICAL
Dimensions – 85mm (W) x 40mm (D) x 205mm (H)
Weight – 530g (with main battery and pistol grip),
460g (with main battery, without pistol grip)
Case – Impact resistant, flame retardant
Rubber Moulded Bumpers – High impact shock absorbers
Case Material – UV stabilised polycarbonate

DISPLAY SPECIFICATION
3.5" QVGA Colour TFT, Anti-Glare, 240 x 320 pixels, LED Backlit,
Direct Sunlight Readable, Programmable Dimming

TOUCHSCREEN
High Impact Industrial Polycarbonate,
Resistive – Finger,
Stylus – Glove operable, Signature capture

AUDIO SPECIFICATIONS
High Power Speaker, Microphone

PERFORMANCE SPECIFICATION
Processor – TI OMAP 800MHz - 1GHz (Windows),
Processor – NXP iMX6 (Android)

MEMORY / STORAGE SPECIFICATIONS
256MB NAND Flash – Standard - 512MB Option
256MB Low Power DDR RAM - 512MB Option

COMMUNICATION AND INTERFACE PORTS
Micro SD Card (Under Battery),
USB 2.0 OTG, SIM Card Socket, RS232

INTERNAL BATTERY BACKUP
Single Lithium Ion cell, 1200mAh, 4.6Wh

WIFI
802.11a/b/g/n (2.4GHz/5GHz)

BLUETOOTH
Bluetooth 2.1 + EDR,
Hands Free Audio Interface Support

INTERNAL IMAGER OPTIONS
EX25 Imager for all 1D and 2D Barcode Engines:
– Extreme Long Range
– Integral Aiming LED
– Autofocus Technology - Read Range 6" to 50ft

KEYBOARD INTERFACE NUMERIC (29 KEYS)
0-9 Numeric Keys, Up, Down, Left and Right Navigational Keys, Scan
Key, Alt, On/Off, Enter, 18 Programmable Function Keys (Direct Access)

KEYBOARD INTERFACE ALPHA NUMERIC (59 KEYS)
QWERTY Keyboard, 0-9 Numeric Keys, Up, Down,
Left and Right Navigational Keys, Scan Key, Alt, On/Off,
Enter, 18 Programmable Function Keys (Direct Access)

OPERATING SYSTEM
Microsoft Windows Embedded Compact 7,
Application Support Package, Full Dialler Application,
Bluetooth, Full Range of Mobile Applications

OPERATING TEMPERATURE
-20˚C to +50˚C

STORAGE TEMPERATURE
-30˚C to +70˚C

RELATIVE HUMIDITY
95% (non condensing)

SHOCK
1.5m drop onto concrete

ENVIRONMENTAL
IP54

APPROVALS
CE / FCC

ACCESSORIES
Pistol Grip, Holster, High Durability Carry Case, Desktop Charging and
Communications Cradle, Six Gang Battery Charger, Rubber Shock Sock

ATEX CERTIFICATION
Ex II 3 G Ex mc ic IIC T4 Gc