



# TS3100

MOBILE COMPUTER

# RUGGED BY DESIGN

The **TS3100** is a 'Tour de force' in both design and ingenuity. Suitable for the most rigorous use in the most extreme conditions. The **TS3100** provides full protection against dust, water and oil ingress and is fully compliant with the ATEX IECEx directive, allowing safe use in potentially explosive environments.

## IMPACT PROTECTION

Mobile Computers are continually subjected to shockwaves either due to vibration when in the vehicle, being used as a handheld or accidentally dropped.

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 **TS3100** 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.

KEY COMPONENTS  
SHROUDED IN SORBOTHANE®



## OTHER DESIGN FEATURES THAT MAKE THE TS3100 THE MOST RUGGED TERMINAL IN ITS CLASS:

- IP65 rating
- Survives 1.5m drops on to concrete
- Operates in wide temperature extremes (-20°C to +55°C)
- High impact polycarbonate rugged touch screen

Our designers have worked hard to achieve industry-leading ruggedness to ensure that the **TS3100** will withstand the most extreme environments.

# FOR EVERY APPLICATION

Designed to be vehicle mounted or hand held, the **TS3100** utilises an innovative quick-release mechanism allowing the user to detach it from the vehicle and switch smoothly and easily to a mobile operation.

## RUGGED AND POWERFUL

The **TS3100** is powered by the latest high-speed processor technology. The powerful 3G HSPA radio and the dynamic data collection capabilities of the high resolution bar code imager, high performance colour 5M pixel camera and rugged touchscreen provide startling productivity and efficiency gains.



ANCILLARY PORT



## PROVEN PERFORMANCE

Front-line personnel demand rugged, reliable mobile computing devices to successfully complete job routines, fulfil business objectives and deliver exemplary service to their customers. The **TS3100** offers proven performance in a vast number of industry settings including, but not limited to:



FUEL DISTRIBUTION



FIELD SERVICE



VEHICLE INSPECTION



ON-BOARD RETAIL



WAREHOUSING



TRANSPORTATION



MANUFACTURING



UTILITIES

# TS3100

## MOBILE COMPUTER

### Technical Specification

#### PHYSICAL

Dimensions: 223mm (W) x 25mm (D) x 131mm (H)  
Weight: 800g  
Case: Impact resistant, flame retardant ATEX spec,  
UV stabilised polycarbonate,  
Internal rubber chassis for maximum impact absorption

#### DISPLAY SPECIFICATION

7" Colour TFT, Anti-Glare, 16:9 Ratio, WVGA 800 x 480 pixels,  
LED Backlit, Direct Sunlight Readable IPS

#### OPERATING SYSTEM

Android Lollipop

#### TOUCHSCREEN

High Impact Polycarbonate,  
Capacitive Option - Glove Friendly - Signature capture

#### AUDIO SPECIFICATIONS

Microphone - Via Cradle, High Power Speaker

#### PERFORMANCE SPECIFICATION

SOM Variscite Dart  
Processor: Freescale iMX6 800MHz - 1GHz

#### MEMORY / STORAGE SPECIFICATIONS

16GB eNAND Flash - Standard - 64GB Option  
1GB Low Power DDR2 RAM

#### POWER SPECIFICATION

9 to 26V DC, 580mA (typical @ 12V) - 1700mA

#### COMMUNICATION & INTERFACE PORTS

Micro SD Card, SIM Card Socket

#### SHOCK

1.5m drop onto concrete

#### ENVIRONMENTAL

IP65

#### CRADLE INTERFACE

USB Host,  
RS232 Channel 1 - 9pin (TX, RX, CTS, RTS, DTR, DSR, CD, RI),  
CAN Bus, Ethernet 100Base-T,  
Microphone - Speaker/Headset interface,  
HSPA connector for external antenna (switched),  
GPS connector for external antenna (switched),  
Cradle Charge Detect, Power Input 10.25V

#### WIFI

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

#### GPS MODULE PERFORMANCE

Multi-GNSS receiver,  
GPS, Glonass, Galileo, QZSS,  
Hot Start < 1Ss - Cold Start < 35s, NMEA

#### HSPA MODULE - MOBILE BROADBAND

HSPA+ 7.2 Mbps downlink - 5.7 Mbps Uplink minimum

#### BLUETOOTH

Bluetooth 4.0,  
Hands Free Audio Interface Support Bluetooth 4.0

#### CAMERA

Front and Back facing Min - 5M Pixel minimum

#### FLASH

LUXEON Flash - back only (only on non ATEX build)

#### SCANNER/IMAGER

EA 15 - EA30 Imager

#### OPERATING TEMPERATURE

-20°C to +55°C (charging 0°C to +40°C)

#### STORAGE TEMPERATURE

-40°C to +70°C

#### INTERNAL RECHARGEABLE BATTERY

Main Battery Removable 3.7V  
Lithium Ion Battery 4060mAh, 30Wh

#### ACCESSORIES

4 Gang Battery Charger,  
In-Vehicle Cradle & Cable assemblies,  
Expansion Hub & Cable assemblies,  
Smart Hub & Cable assemblies

#### APPROVALS

ATEX/IECEX



TouchStar Technologies Ltd, 7 Commerce Way, Trafford Park,  
Manchester, M17 1HW United Kingdom

Visit: [www.touchstar.co.uk](http://www.touchstar.co.uk) Email: [enq@touchstar.co.uk](mailto:enq@touchstar.co.uk) Tel: +44 (0) 161 874 5050