

# SmarTTouch

## Palm Size Smart card Terminal



SmarTTouch terminal by NanoGlobes Ltd, is a hand-held smart card data transaction terminal which utilises the latest Liquid Crystal touch screen display technology. Commands and required actions are selected from the on-screen menu by simply touching the LCD with a stylus or a pen. The LCD has a large 320 x 240 dots capability and has a viewing area of 80mm x 62mm.

SmarTTouch is a multi purpose smart and memory card reader/writer which accepts two full size smart cards and two SIM cards simultaneously. SmarTTouch can be used for off-line money transactions such as transferring money from customer's smart card to the retailer's smart card. Exchange of information facilities between smart cards and SIM cards allows money or royalty points to be transferred from one card to another.

Service industries, such as healthcare, police and traffic police can benefit from the SmarTTouch technology, by being able to view and where necessary, update the individual smart card information using the touch screen.

A powerful operating system within the SmarTTouch is capable of executing various customised applications and displaying messages in different languages. The graphic LCD is capable of displaying various letters or a shape is made possible by the soft font

capability of the SmarTTouch.

Power management is handled by the operating system in order to preserve the rechargeable batteries. After an inactivity timeout, SmarTTouch is switched to standby mode and awakens automatically when a card is inserted or the LCD screen is touched.

SmarTTouch has a software development package for OEMs, allowing customised application programs to be written on the PC and downloaded to the unit through its RS232 serial port. The serial port can also be used for attaching a printer or a high speed modem.

To transform the SmarTTouch to a handheld on-line EFPOS transaction terminal a GSM phone can be connected to the serial port.

SmarTTouch has an in-built fast charger as well as a trickle charger for keeping the two MH-NI batteries fully charged. The fast charger and trickle charger uses power supplied by a suitable external 6 Volts DC power supply.

SmarTTouch has been designed and manufactured to ISO 9002 quality standards, using state of the art components and technology.

*...Another Quality Product from NGL*



<b>Hardware Specifications</b>	
<b>Processor</b>	Motorola DragonBall Integrated Processor 3.3 Volts fully static Operation
<b>Flash Memory</b>	4MBit (256KByte) standard, 8 or 16 MBit (1MByte or 2MByte) optional
<b>Static Ram</b>	4MBit (512KByte) standard Battery backed up (optional)
<b>Real Time Clock</b>	Battery backed up clock
<b>Buzzer</b>	Piezo-electric buzzer
<b>Display</b>	320* 240 Pixel graphic Liquid Crystal Display (LCD) with integral Touch Screen. Characters can be defined as 8*8 or 16*16 pixels. Approx. 40 characters by 30 lines. Contrast levels are controlled by the processor using a digital Rheostat. User selects the level on the screen. Back light option
<b>Smart card Reader/Writer</b>	2 full size smart card slots T = 0 & 1 (5 Volt VPP) 2 SIM card connectors. One SIM is in parallel with one of the full size smart card slots.
<b>RS232C</b>	One port (cable is optional) for connecting to serial printer or external modem.
<b>IrDA, Infra-Red Communication Interface</b>	Option: For transmitting and receiving data using Infra-Red eg: printer
<b>Power Supply</b>	Main Battery: Two AA size Ni-MH (Nickel Metal Hydride) cells 4 Hours in-built fast charger is standard. Option: external 6V DC Power supply Backup Battery: Coin type lithium battery (Approx. 5 years life)
<b>Standard Compliance</b>	ISO 7816 1-3 (5 Volt VPP) CE Approved
<b>Environment</b>	Operating Temperature: 0° to 40° C Storage Temperature: -10° to 70° C Relative Humidity: Up to 85%
<b>Dimension</b>	175mm x 92mm x 25mm
<b>Weight</b>	320gm



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**SmartTouch Versatile Smart Card Terminal**