TI6820xx

High performance & High protection
Wireless 2D Barcode Scanner

TI6820HD (High density); TI6820HHD (Ultra High density)

TI6820DP (DPM); TI6820XER (Ultra long depth of field)

TI6820xx is a wireless high performance and high protection 2D scanner based on advanced image decoding and micropower wireless frequency hopping technology. The TI6820xx series is designed to the highest IP68 protection level, which is ideal for factories, warehouses, docks as well as the cold and high humidity working environments. It integrates a megapixel scan engine and a variety of well-designed lenses and lighting systems, which enables the scanning of complex bar codes such as DMP laser engraved, damaged or scratched and other high-density codes. The advanced wireless frequency hopping communication technology ensures that TI6820xx can perform stably even in complicated industrial environment. And it also supports group working of up to 100 scanner handsets with one socket receiver. Therefore, TI6820xx is very suitable for high scanning requirements, high intensity and complex usage environments, like manufacturing, large warehouses, docks, cold chains and so on.

Features

- ◆ IP68 Protection can work in harsh environment

- ◆ Excellent decoding ability and ultra-high sensitivity

- ◆ Good at scanning DPM codes, scratched bar codes, highly reflective bar codes, high-density barcodes, miniature barcodes and other difficult barcodes

- ◆ Using adaptive frequency hopping technology, stable data transmission and strong anti-interference ability, even in the harsh industrial environment, data can still be transmitted

- ◆ Support group working of multi-clusters, one socket can support up to 100 handsets

- ◆ Good ergonomic design with long battery life and working time

- ◆ Built-in data memory, which can store up to 50,000 bar codes

- ◆ It can be desktop or by wall mounted

Applications

- ◆ **Manufacturing like in electronics, Automotive and machinery**

  With the megapixel high-resolution engine and a variety of well-designed lenses and lighting systems, the TI6820 series can read not only all standard 1D and 2D barcodes, but also various difficult barcodes which is commonly encountered in manufacturing process. It can even read laser-engraved barcodes as small as 1~3mm quickly.

- ◆ **Warehousing and logistics**

  It can scan efficiently both in poor-lighted warehouses and in direct sunlight outdoor. It can also capture codes on a shelf or truck over 10 meters away if the long range scanner is instaleld

- ◆ **Cold scanning with condensation**

  Works in cold temperatures of -20° C and is rated IP68

Parameters

Power and Battery

Voltage	DC5±0.25V
Power	TI6820HD, TI6820HHD: 1.8W(Max) TI6820DP
Battery	2600mA（standard）. 3300mA（Optional）
Endurance	Scanning every 5secs： TI6820HD, TI6820HHD: up to 24hrs TI6820DP, up to 18hrs

Performance Ability

Lighting & Aiming	TI6820HD, TI6820HHD: White & Red Lighting, Red LED aiming line; TI6820DP：Auto-switching multi-
Resolution	Megapixels
Scan Angle	±72°、±72°、360°(Skew, Pitch, Roll)
Contrast	≥20%
Code Resolution	TI6820HD： 1D- ≥ 3mil 2D-≥ 4mil TI6820HHD: 1D≥ 2mil 2D≥ 3mil TI6820DP： 1D≥ 3mil 2D≥ 4mil
Scan Ability	Printed, Sprayed, DPM, On-screen
Code Types	**2D**： QR Code,Micro QR, Data Matrix，PDF417，Micro PDF417，Aztec，Maxicode **1D**： UPC-A，UPC-E，EAN-13，EAN-8，ISBN/ISSN code 39，Code 39（Full ASCII，code 32, Interleave 2 of 5，Industrial 2 of 5，Matrix 2 of 5，IATA 25，Codebar Code 128，Code 93，Code11 cMSI/Plessey UK/Plessey UCC/EAN 128，Composite Code -A/B/C，GS1

Communication Method

Wireless	433MHz wireless or Bluetooth
Contact Radius	Up to 400 meters for 433MHz; 50meters for Bluetooth
Group Work	A Base Station can support up to 100 handsets at the same time
Interface	USB-HID，USB-
Trigger Mode	Manual, Consecutive Scanning, Autosensing
Cable Length	Standard: 2 meters USB cable
Alert Mode	Buzzer (volume and tone adjustable), LED light, vibrator

Material & Environment

Shield Materials	Bi-color：ABS+PC/TPU；Single：ABS；Transparent：PC；Waterproof ring：Silica gel
Scan Window	Scratch-resistant toughened glass
Temperature	-20℃~55℃（Working） -40℃~70℃（Storage）
Humidity	5%~95%（non-condensing）
Luminance	0~100,000LUX
Dust & Water Proof	Scanner: IP68； Socket: IP52
Shock Proof	Withstand multiple drops from 2 meters to concrete surface
Setting Method	Scan setting barcodes / press button on socket

Certification

certification	CE，FCC-ID，ROHS

Others

Optional Accessories	RS232 cable, Power adapter, P/S2 cable, 5 meters USB cable