F780BT Series

A Ruggedized, High Performance Cordless Linear Imager for Industry and General Purpose Applications

Preliminary

Bluetooth 2.0 EDR wireless technology with more than 80m communication coverage

Plug-and-play cordless migration by working with smart cradle

Support both HID and SPP profiles to connect with most Bluetooth-enabled hosts

Support PICONET for multiple connection up to 4 imagers

Memory storage up to 20,000 EAN-13 scans for batch mode or out-of-range operation

High capacity Li-ion battery and advanced power management to ensure maximum uptime

Auto reconnection capability

Outstanding reading capability on 3 mil barcode with more than 2" depth of field

More than 16" reading distance on 100% UPC/EAN symbols

Unsurpassed readability on low contrast, smudged, poorly-printed or damaged barcodes

Ruggedized over-mold design to withstand multiple drops to concrete from 1.6 meter

GS1 DataBar Linear-stacked, PDF, MicroPDF and composite code support

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Thanks to the revolutionary FuzzyScan 2.0 Imaging Technology and Bluetooth® wireless technology, the new FuzzyScan F780BT series Cordless Linear Imager from Cino impresses the user with high reading performance and ultimate freedom of mobility. The F780BT expertly combines ruggeddized construction with versatile features, providing mobile workers an ideal wireless solution for industry or general purpose applications.

Compact yet ruggedized construction

To deliver the highest level of dependability, the F780BT is built with compact and robust over-mold housing. It is rugged enough to withstand multiple drops from 1.6 meter to concrete to meet your day-to-day scan-intensive use anywhere.

Instant cordless migration

Similar to your mouse or keyboard, by working with its smart cradle, the F680BT provides a plug-and-play cordless solution with your existing non-Bluetooth-enabled IT assets in a breeze. To meet different host interfaces requirement, USB HID, USB COM, PS/2 keyboard wedge and RS232 are available for the ease of integration.

Superior connectivity and compatibility

F680BT provides superior working range more than 80 meters. By supporting both SPP and HID profiles, F680BT is fully compatible with most Bluetooth-enabled hosts, including desktop PC, laptop, PDT and PDA etc. Up to 4 imagers can be connected while working with smart cradle in the PICONET mode, reducing your total cost of ownership.

Outstanding reading performance

Thanks to FuzzyScan 2.0 Imaging Technology, the F680BT can read 3 mil high density barcode with more than 2" depth of field and 100% UPC/EAN labels with over 16" reading distance. Besides, it is capable of reading low contrast, damaged, smudged, poorly-printed barcode labels accurately. You can also feel its superior motion tolerance for rapid and precise data-capture on the move.

Specifications

Performance Characteristics

Optical System	High performance Linear Imaging Engine
Print Contrast	20% minimun reflective difference
Minimum Resolution	Typical 3 mil (Code 39, PCS 0.9)
Working Distance [1]	More than 16 inches on 100% UPC/EAN symbols More than 24 inches on 20 mil Code 39
Light Source	630nm visible red LED
Scan Rate	Dynamic scanning rate up to 500 scans per second
Reading Direction	Bi-directional (forward and backward)
Pitch/Skew	± 65˚/65˚
Operating Modes	Trigger, Presentation
Radio Operation Modes	Pair mode, PICONET mode, SPP Maser/Slave mode, HID Slave mode
Configuration Setup	Bar code command Windows utility - FuzzyScan PowerTool
Data Editing	Condensed DataWizard via bar code command Full-feature DataWizard via FuzzyScan PowerTool
User Interfaces	3 LEDs for power, good read and status indications Programmable beeper Optional vibrator

Electrical Characteristics

Battery	3.7V, 2200mAH Li-ion rechargeable battery
Battery Charge Time	Approx. 5 hours per full charge

Communication Characteristics

Personal Area Network	Bluetooth®
RF Standard	Bluetooth v2.0 EDR
RF Frequency	Band 2.402~2.4830 GHz unlicensed ISM band
Communication Range	Up to 80 meters in open space (depending on actual environmental condition)
Supported Profiles	SPP, HID

Supported Symbologies

1D Linear (F780BT)	Code 39, Code 39 Full ASCII, Code 32, Code 39 Trioptic Code 128, UCC/EAN-128, Codabar, Code 11, Code 93 Standard & Industrial 2 of 5, Interleaved & Matrix 2 of 5 German Postal Code, China Postal Code, IATA UPC/EAN/JAN, UPC/EAN/JAN with Addendum Telepen, MSI/Plessey & UK/Plessey GS1 DataBar (formly RSS) Linear, Linear-stacked
Linear-stacked (F788BT)	PDF417, Micro PDF417, Codablock, Composite

User Environment

Drop Specifications	Withstand multiple 1.6m/5ft. drops to concrete
Environmental Sealing	IP41
Operating Temperature	-10˚C to 50˚C (14˚F to 122˚F)
Storage Temperature	-40˚C to 70˚C (-40˚F to 158˚F)
Humidity	5% to 95% related humidity, non-condensing
Ambient Light Immunity	0 ~ 100,000 lux

Physical Characteristics

Dimension	97.8 mm (L) x 70.5 mm (W) x 156.2 mm (D) 3.85 in. (L) x 2.77 in. (W) x 6.15 in. (D)
Weight	230g (battery included)
Color	Light Gray or Black

Safety & Regulatory

EMI/RFI	FCC Part 15 Class B, ICES-003 Class B European Union EMC Directive (CE) Taiwan EMC (BSMI)
Radio	FCC Part 15 Subpart C, IC Part 15 Subpart C CE EN300 328, Taiwan LP0002 (NCC) Japan TELEC T401 (MIC)
Safety [2]	LED Eye Safety IEC60825-1, EN60825-1
Environmental	Compliant with RoHS directive

Accessories

Smart Cradle	Radio Communication: Bluetooth v2.0 EDR Host Interface: PC/AT, PS/2 (DOS V) keyboard wedge, TTL RS232 Serial, USB HID, USB COM Battery charging function: Fast charge Indications: 3 LEDs and 1 buzzer
Charging Cradle	Battery charging function: Fast charge Indication: 1 LED
Interface Cables	PS/2 (DOS V) Keyboard Wedge Cable RS232 Serial Cable USB Cable
Others	Power Adapter 5V DC, 2A Hand-Free SmartStand

1. The working distances are measured in 400lux office environment using Grade A bar codes.
2. Don't stare into the LED beam.

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