

DENSO

NEW UHF band RF tag high-power handy terminal
BHT-1281QULWB-CE

BHT-1281QULWB-CE specification

		UHF band RF tag handy terminal			
Type		1W high-power type			
OS		BHT-1281QULWB-CE			
CPU		Windows Embedded CE 6.0 R3			
Memory	RAM	ARM Cortex-A8 800MHz			
	Flash ROM	Mobile DDR 512MB			
Display	Number of Dots**	2.0GB			
	Display device	3.5 inch HVGA (320 x 480 dots)			
	Back light	Liquid crystal dot matrix display (color)			
RFID	Readable and recordable RF tag	White LED			
	Frequency	ISO/IEC18000-63 TypeC (EPCglobal Class1 Gen2)-supported tag			
	Channel width/number of channels	USA/CANADA	902-928kHz		
		Taiwan	922-928kHz		
		Thailand	920-925kHz		
	Transmission output	USA/CANADA	500kHz/50ch		
		Taiwan	500kHz/12ch		
		Thailand	500kHz/10ch		
	Modulation method	PR-ASK			
	Transmission rate	1W or less			
Scanning distance**	1W or less (0.4W**)				
Output adjustment	1W or less				
Scanner	Mode	Area sensor			
	Decode	2D code	QR code, micro QR code, SQRC, iQR code, PDF417, micro PDF417, Maxi code, DataMatrix (ECC200), GS1 Composite		
		Bar code	EAN-13/8 (JAN-13/8), UPC-A/E, UPC/EAN (Add-on embedded), Interleaved 2 of 5, Codabar (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), GS1 DataBar (RSS)		
	Minimum resolution	2D code	0.167mm		
		Bar code	0.125mm		
Maker	Area guide maker				
Scan Confirmation	LED in two colors: Blue/red, speaker, vibration				
Key input section	Number of keys	31 keys (including the power key) + 4 trigger keys			
	Wireless LAN	Suitable standard	Comply with IEEE802.11b/g/n		
Network	Frequency	IEEE802.11b/g/n: (2.4GHz)			
		Network range**		IEEE802.11b/g/n (indoor: about 150m, outdoor: about 300m)	
		Transmission speed**		IEEE802.11b:11/5.5/2/1Mbps, IEEE802.11g:54/48/36/24/18/12/9/6Mbps, IEEE802.11n:65/58.5/52/39/26/19.5/13/6.5Mbps	
		Security		WEP40,128, WPA-PSK (TKIP, AES), WPA2-PSK (TKIP, AES), WPA-1x (TKIP, AES/EAP-TLS, PEAP, LEAP/EAP-FAST), WPA2-1x (TKIP, AES/EAP-TLS, PEAP, LEAP/EAP-FAST), 802.1x (EAP-TLS, PEAP, LEAP/EAP-FAST)	
Bluetooth	Bluetooth Ver2.0 + EDR based class 2				
Card slot	microSDHCx1				
Power	Main battery	2 lithium ion batteries			
	Operating time**	RF tag continuous scanning**	Approx. 8 hrs		
		Wireless LAN communication**	Approx. 60 hrs		
Additional functionality	Clock, speaker, vibration, battery voltage indicator, key back light, G-sensor				
Environmental performance	Operating temperature**	-20~40°C			
	Protection rating	IP54			
	Drop resistance**	Dropped from 1.2 m above concrete floor, on all 6 faces, 5 times each (total 30 times)			
Weight (including stylus pen and battery)	Approx. 570g				

* 1: The liquid panel is made with high-precision technology. Though the number of pixels available is 99.99%, please understand that there is 0.01% chance of the display being scrambled and turned off. * 2: The value of measurement by certification authority. * 3: Evaluation condition = Avery Dennison AD-2376. The scan distance shown is a reference value, and it may vary accordingly, depending on the actual environmental conditions. * 4: Network range and transmission speed are logical variables, and these may vary accordingly, depending on the actual environmental conditions. * 5: Operating times shown are reference values at room temperature, and these may vary depending on working conditions. * 6: When 50 RF tags are scanned simultaneously with the back light at Low level, the vibrator will be disabled and the speaker enabled. * 7: RF tag scanning : wireless communication : screen update : standby = 1:1:1:20. The back light is at Low level, the vibrator and buzzer are disabled and the power save mode is ON (FastPSP), and the wireless function is enabled only when the terminal is connected to the wireless network; the wireless function is disabled otherwise. * 8: The temperature rises from 0 to 40°C while charging. * 9: This is a test value, not a guaranteed value.

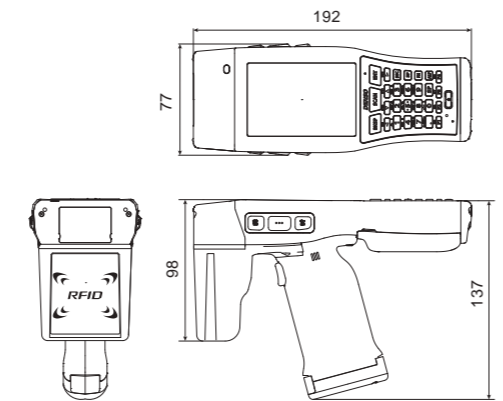
Option (sold separately)

- Communication Unit, which performs data communication with the BHT communication unit and the up-level device
- CU-1233 (RS-232C/USB communication + main body charging + reserve battery charging)
- CU-1211 (Ethernet communication + main body charging + reserve battery charging)

	CU-1233	CU-1211
Communication mode	Compy with RS-232/USB2.0 Full speed	Ethernet (100BASE-TX)
Charging time (main body)	High-capacity battery: approx. 9 hours (two batteries are charged simultaneously)	
Reserve charging	High-capacity battery: approx. 4.5 hours	
Size	133(D)x97(W)x101(H)	
Working voltage	AC adapter (AD3-1012/3000-02)* * The AC adapter is an option.	

- Communication Cable
 - CBBHT-US1800/C12-4A
 - * The BHT-1281QULWB-CE can be charged by connecting it to a USB charger. When charging the BHT-1281QULWB-CE, use a device that satisfies the following output and USB charging specifications. Output specifications: (voltage) DC5±0.25V(current) 1.2A or higher USB charging specifications: Battery Charging Specification Rev. 1.2
- Battery
 - BT-110L (High-capacity battery only)
 - BT-120L-C (High-capacity battery + battery cover)
- Charger
 - CH-1104 (Four-battery charger)
 - CH-1254 (Four-device charger)
- Waist Case
 - WHBHT-1281QULWB-CE
- Hand Strap
 - SPBHT-1200QU

Dimensions Unit: mm (for reference only)



Software (Sold separately)

- Development Tool
- Software Development Kit (SDK) for BHT Windows® CE*
- * This software application is available free of charge from the site to customers who have purchased BHT Windows.
- Preinstalled Software
- Keyboard interface software [kbifCE]*
- * This software application is pre-installed on the system.

Items with this mark are available from the company's homepage (Qdirect) free of charge.

Components

- Device
- Stylus pen
- Guidelines for operation
- Instruction manual
- Battery

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Blitz scanning

—Instant long range scanning of tags—



Full size Conceptual image

For more information, please visit our website
<http://www.denso-wave.com/en/adcd/>

*Appearance and specifications are subject to change without prior notice. *Description stated in this catalogue is as of November, 2015.

The Evolution of making inventory



Scanning speed
Working hours reduced by **90% or more** (compared to use of bar codes)

BHT-1281QULWB-CE is a high-powered handy terminal with an overwhelmingly high scanning speed. It can scan more than one tag simultaneously, and accordingly, the work can be completed in a short time. Furthermore, the circular polarized antenna enables 360° scanning and scanning of tags facing in different directions.

Simultaneous scanning of plural tags

Scanning distance
Class top level approx. **5m^{*1}**

BHT-1281QULWB-CE achieves class top level long-distance scanning of approx. 5 m. With its broad-range scanning capability, it can easily scan tags of goods placed even in high places, contributing to a significant improvement in operational efficiency.

Possibility of long range distant scanning

Overwhelming scanning performance and usability

—Outstanding operational and user-friendly product—

Easy to grip

BHT-1281QULWB-CE has an easy-to-grip, gun grip-like handle that enables users to easily aim at tags in high places. Furthermore, its light body doesn't tire users during long periods of use.

Superior power-saving

The unique power-saving design enables class top level long-time operation of approximately 60 hours^{*2} when the wireless function is enabled as needed, and approximately 8 hours^{*3} even when RF tags are scanned continuously.

Drop resistance

Even though BHT-1281QULWB-CE has a gun grip-like handle, it achieves a drop resistance of 1.2 m x 30 times (above a concrete floor). If you drop it, you won't have to worry.

Large screen

BHT-1281QULWB-CE has a 3.5-inch HVGA color liquid crystal display, enabling the clear display of a great deal of information simultaneously on the large screen.

Fully-equipped basic functions

BHT-1281QULWB-CE can scan not only RF tags, but also QR codes and bar codes. Furthermore, it is equipped with everything necessary for smooth operations, including a touch panel, and wireless LAN and Bluetooth functions.



*1: Evaluation condition = Avery Dennison AD-23716. The scan distance shown is a reference value and it may vary accordingly, depending on the actual environmental conditions. *2: RF tag scanning : wireless communication : screen update : standby = 1:1:1:20. The back light is at Low level, the vibrator and buzzer are disabled and the power save mode is ON (FastPSP), and the wireless function is enabled only when the terminal is connected to the wireless network; the wireless function is disabled otherwise. *3: When 50 RF tags are scanned simultaneously with the back light at Low level, the vibrator is disabled and the speaker enabled.