FCL Components Thermal Printer
FTP-62HWSL001 series

FCL Components battery drive 2" high speed standalone thermal printer compatible with iOS
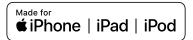
Overview

High-speed, compact, lightweight battery drive standalone thermal printer with easy loading mechanism (ELM) for 2-inch (58mm) wide paper. It can print data from iPhones, other smart phones and mobile terminals.

Made for
 iPhone | iPad | iPod

FTP-62HWSL001

Features

- High-speed printing at max. 120mm/sec. with 2 cell battery
- Compact and light weight
- Drop-resistant - 1.5 meters
- Bluetooth® and USB (V2.0 full speed) interface
- Communicates with iPhone, iPad, IPod touch via Bluetooth wiresless technolgy
  Note: if customer develops application software, iDP (iOS Developer Program) registration is required
- UL No. 17143

■ Specifications

Item		Specifications
Part number		**ACTIVE:** FTP-62HWSL001#1D - Kanji, sensor location to support black mark on the front side of the paper **DISCONTINUED:** FTP-62HWSL001#11 - Kanji, sensor location to support black mark on the back side of the paper FTP-62HWSL001#12 - Traditional Chinese, sensor location to support black mark on the back side of the paper
Dot structure		384 dots/lines
Dot pitch (horizontal)		0.125mm (dot densityL 8 dots/mm)
Dot pitch (vertical)		0.125mm (dot densityL 8 dots/mm)
Effective printing area		48 mm
Paper width/diameter		58mm
Paper thickness		60-115µm*1
Paper diameter		Paper diameter: min. ϕ 12mm, outside diameter max. ϕ 40mm
Maximum printing speed		Battery 120mm/sec. (960 dotlines/sec.) (fully charged battery, with standard paper)
Character types		Alphanumeric KANA International characters Thai code 18 JIS KANJI OCR character
Power	Battery	7.4VDC lithium, 2,130mAh (Lithium Ion battery)
	AC adaptor	100VAC to 240VAC, output 12VDC (to charge battery)
Dimensions		86.0 x 103.5 x 44.0mm (WxDxH)
Case color		Black
Weight	Printer with battery	Approximately 305g (including battery, excluding paper)
Expected life	Head	Pulse durability: Min. 100 million pulse/dot (under our standard conditions) Wear resistance: Min. 50km (at printing rate max.12.5%, with standard normal paper), 25km (at printing rate max.12.5%, with standard label paper)
	Battery	Printing max. 220m (with full charged new battery, printing rate 12.5%, with standard paper)
Bar code type	Standard	UPC-A, UPC-E, JAN(EAN)13, JAN(EAN)8 , CODE39 , ITF, CODABAR, CODE128 GS1 DataBar-14, GS1 DataBar-14 Truncated, GS1 DataBar Limited
	2-D	QR code, MAXI code, PDF417, Customer Barcode, GS1 DataBar-14 Stacked, GS1 DataBar-14 Omnidirectional, GS1 DataBar Expanded
Bit images		Width: 8 to 384 dots, height: 1 to 1023 dots
Download images		Width: 8 to 384 dots, height: 1 to 255 dots, memory: 192K bytes
Interface	Bluetooth	Ver2.1+EDR Class2 (to communicate with iPod touch/iPhone/iPad)
	USB	V2.0 full spee
	NFC	ISO/IEC1443 Type A (only function to transmit printer information to host device)
Safety standard		VCCI, TELEC, UL, FCC, IC, CE marking
Environmental conditions	Operating temperature/ humidity	-10°C to +50°C (USB: 0°C to +50°C, +10°C to +35°C during charging, 30-85%RH (no condensation) (Print quality guaranteed at +5degC to +40degC, with standard paper)
	Storage temperature/ humidity	-20°C to +60°C, 5 to 90% H (excluding paper, no condensation)

*1: there may be exceptions

Item	Specifications
Detection functions	Paper end, mark, battery voltage, cover open, Bluetooth error
Major functions	Operation switch (power, paper Feed), LED status display, battery charge (by AC adapter)
Recommended thermal sensitive paper	Label: HW54S (Nippon Paper Group) Normal: PD150R (Oji Imaging Media) Long Term Storage: TP50KJ-R (Nippon Paper Group)

■ Interface specification at host side

Item		Specifications
Bluetooth V2.1 +EDR	Profile	SPP, L2CAP, SDP, RFCOMM, iAP, GAP
	Modulation	GFSK, π / 4-DQPSK, 8DPSK (EDR)
	Data speed	1306.9kbps max.
	Maximum distance	10m
USB	Data speed	12Mbps max.

■ Power supply
• Battery

Item	Specifications
Type	Lithium Ion, 2 cell
Manufacturer	FCL Components
Model	TBD
Rated voltage	7.4V, 2,1300mAh
Life	500 cycles
Weight	105g

■ Options

Item	Part number	Notes
AC cable*	FTP-628Y601	For Japan, cable length approx. 1m
	FTP-628Y602	For USA/Canada, cable length approx. 1m
Interface cable (USB)	FTP-628Y301#11	Connector: USB A - USB miniB, Cable length approx. 1m

*: For dedicated AC adaptor for battery charge

■ Dimensions

• Printer mechanism: 2-inch

(103.5)

(86.0)

(44.0)

Note: 1. Dimensions are nominal value)tolerance ±5mm unless otherwise specified.
2. Dimensions in ( ) is reference value.

■   Commands

Command	Content
HT	Horizontal tab
LF	Line feed with printing
FF	Feeds forms (new page)
ESC FF	Data printing in page print mode
ESC EM + n	Auto loading amount setting
ECS RS	Sets reverse printing
ESC US	Resets reverse printing
ESC SP + n	Character space setting
ESC ! +n	Sets print mode
ESC $ + nL+nH	Horizontal absolute position setting[4]
ESC % + n	External registration character specification / cancellation
ESC &+y+c1+c2+x+d1 to dn	External registration character definition[1, 3]
ESC*+m+nL+nH+[d1 to dn]	Bit image mode registration
ESC -+n	Underline setting
ESC 2	Sets default line spacing
ESC 3+n	Sets the line feed length
ESC ?+n	External registration character deletion[1, 3]
ESC @	Printer initialization
ESC A+n	Set the space between lines
ESC C+n	Sets the page length by character line
ESC D+n1 to nk + null	Set the tab position
ESC J+n	Feeds paper in forward direction and prints
ESC K+n	Reverse paper feed
ESC L	Page print mode selection[4]
ESC R+n	Selects international character
ESC S	Line print mode selection[4]
ESC T+n	Print direction setting in page mode[4]
ESC V+n	Right rotation 90º specification / cancellation
ESC W+xL+xH+yL+yH+dxL+dxH+dyL+dyH	Print area setting in page print mode[4]
ESC X+m+n	Sleep mode time setting
ESC Y+SOH+ESC x+a+FF+m+n+d1 to dk	Program download[1]
ESC \ + nL+nH	Horizontal relative positioning setting[4]
ESC c+1+n	Set internal processing
ESC c+5+n	Enable/disable panel switch
ESC d+n	Print and feed paper n lines
ESC e+n	Print and back forward paper n lines
ESC t+n	Character code table selection
ESC {+n	Sets/resets upside down printing
ESC DEL+n	Nonvolitile memory deletion[1, 3]
FS !+n	Kanji printing mode collective specification[2]
FS &	Kanji printing mode specification
FS *+m+nL+nH+d1 to dk	High speed batch image print
FS -+n	Kanji underline specification / cancellation

Command	Content
FS .	Kanji printing mode cancellation
FS 2+C1+C2+d1 to dn	User defined character definition
FS 9+n	Sets the detection functions
FS A+m+n	Page starting position adjustment
FS C+n	Kanji code system selection
FS E+n	Correction of impressed energy
FS S+n1+n2	Kanji space setting
FS T+n	Print direction in page mode selection
FS U+n	Base point setting
FS V+n	Clockwise rotation setting
FS W+n	Specifiy/cancel double tall, double wide Kanji characters
FS r+n	Parameter transmission (valid for non-protocol mode)
FS s+n	Print speed setting
GS !+n	Select characters size
GS $+nL+nH	Vertical absolute position specification in page print mode
GS &+m+x+yL+yH+d1 to dn	Registration of image data
GS'+m+n	Prints registered image data
GS (+E+pL+pH+fn+a (fn=69)	Bluetooth communication setting
GS (+E+pL+pH+fn+a+d1 to dn (fn=69, a=2)	Bluetooth PIN code setting
GS (+E+pL+pH+fn+a+m+n (fn=69, a=4)	Bluetooth security mode setting
GS (+E+pL+pH+fn+a+d1 to dn (fn=69, a=5)	Bluetooth PIN code setting
GS (+E+pL+pH+fn+a+n (fn=69, a=10)	Bluetooth automatic connection specification/cancellation
GS (+E+pL+pH+fn+a (fn=69, a=130)	Bluetooth device name setting
GS (+E+pL+pH+fn+a (fn=69, a=132)	Bluetooth security mode setting
GS (+E+pL+pH+fn+a (fn=69, a=133)	Bluetooth PIN code setting
GS (+E+pL+pH+fn+a (fn=69, a=138)	Bluetooth automatic connection specification/cancellation
GS (+E+pL+pH+fn+m+nL+nH (fn=70)	Mark position setting[1]
GS (+E+pL+pH+fn+a+n (fn=72, a=2)	Paper type setting[1]
GS (+E+pL+pH+fn+a (fn=73, a=2)	Paper type transmission
GS (+K+pL+pH+fn	Printing control setting
GS (+K+pL+pH+fn+n (fn=49)	Print density setting
GS (+K+pL+pH+fn+n (fn=50)	Print speed setting
GS (+K+pL+pH+fn+n (fn=97)	Number of head division setting
GS <	Line feeds to the next mark
GS E+n	Print quality setting
GS H+n	Select HRI character print position[4]
GS L+nL+nH	Left margin setting
GS W+nL+nH	Print area width setting
GS \+ nL+nH	Vertical relative position setting in page mode[4]
GS a+n	Setting & cancellation of status transmission (non-protocol mode)
GS e+m+n	Bar code width setting
GS f+n	Select HRI character font[4]

Command	Content
GS g+0+m+nL+nH	Maintenance counter initialization*1
GS g+2+m+nL+nH	Maintenance counter transmission
GS h+n	Bar code height setting
GS k+m+n+d1 to dn	Bar code printing
GS k+m+k1+k2+k3+k4+{[p1][d(1,1)]to[d(1,j)]} to {[pi][d(i,1)] to [d(i,j)]}NUL	Two dimentional code (QR code) print*4
GS k+m+k1+k2+k3+nL+nH+d1 to dn	Two dimentional code (Maxi Code) print*4
GS k+m+k1+k2+k3+k4+nL+nH+d1 to dn	Two dimentional code (PDT-417) print*4
GS k+m+k+n+d1 to dn	Two dimentional code (customer bar code) print*4
GS k+m+n+k+pL+pH+d1 to dp	Barcode (GS1 DataBar) print*4
GS k+m+n+k1+k2+k3+k4	Barcode (GS1 DataBar) setting*4
GS w+n	Set bar code horizontal size

Notes: 1. The nonvolatile memory is written/erased
2. Only the model equipped with the Kanji character corresponds
3. Only the model equipped with the enhancing nonvolatile memory corresponds
4. Only the model equipped with the enhancing volatile memory corresponds

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