# FUJITSU

shaping tomorrow with you
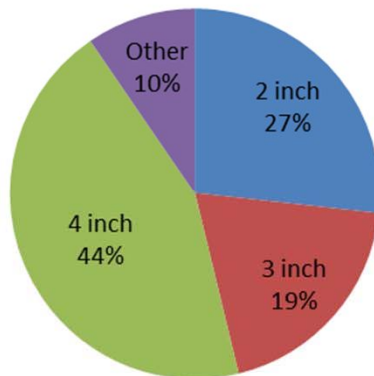
# Ticket & Label Printing
# FP-32L

# FP-32L Information

# Market of Label Printer and FP-32L

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## ■ Label printer Market

### Production in 2014 (Global)



| Print Width (inch) | Production (Kunits) |
|---|---|
| 2 inch | 1,398 |
| 3 inch | 1,017 |
| 4 inch | 2,313 |
| Other | 500 |
| Total | 5,228 |

QY Research April, 2015

### Global Market share of label printer

4 inch (print width) is main occupation in the global market of label printer.

⇒The target of FP-32L is 2 inch or 3 inch (print width) which are occupied 46% of global market.

## ■ FP-32L and other Label printers

### Benchmark of Label printer

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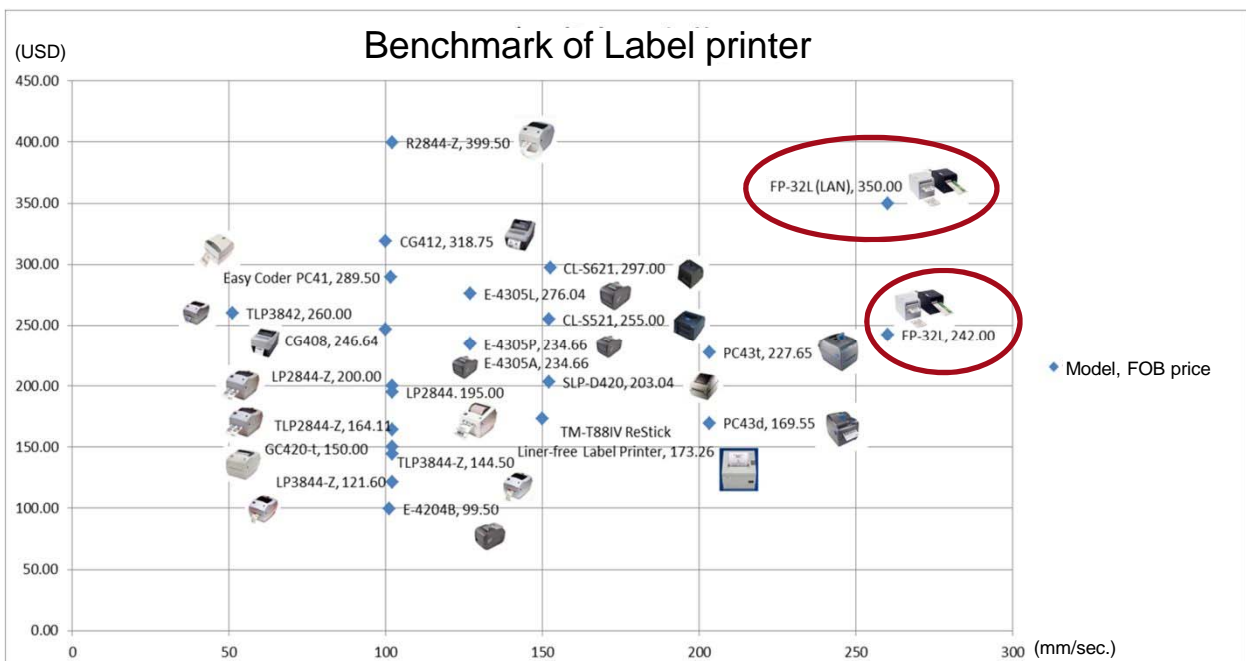
## ■ Time shortening

**Feature1: Setting paper**
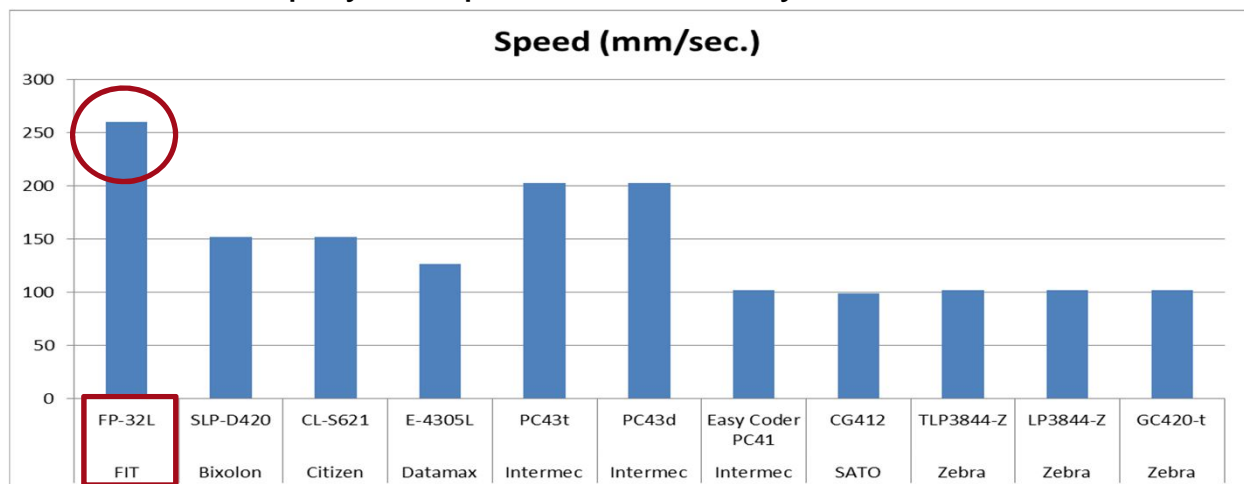
Paper setting is "Drop-in Paper set".
You can finish the setting paper in a moment.
Just throw the paper inside of the printer.

**Feature2: Speed**

FP-32L doesn't keep you waiting for printing !!
Max. printing speed is 260mm/sec.
FP-32L helps your operation smoothly.

**Speed (mm/sec.)**

| Model | FP-32L | SLP-D420 | CL-S621 | E-4305L | PC43t | PC43d | Easy Coder PC41 | CG412 | TLP3844-Z | LP3844-Z | GC420-t |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Brand | FIT | Bixolon | Citizen | Datamax | Intermec | Intermec | Intermec | SATO | Zebra | Zebra | Zebra |
| Speed | 260 | ~150 | ~150 | ~125 | ~205 | ~205 | ~100 | ~100 | ~100 | ~100 | ~100 |

## ■ Installing anywhere

**Feature1: Compact**

The dimensions are
128mm(W),207mm(D),145mm(H).
You can install even tiny space.

**Feature2: Splash-Proof**

FP-32L applies Splash-proof design.
*IEC60529(Level2) Conformance
You can use even wet environment like kitchen.

## ■ Flexible for various kinds of papers

### Label Printing

*~ FP-32Lcan print various size of label ~*

**Point1: Paper width**
You can change the label width depending on usage.



**1 inch ~ 3 inch**

**Point2: Roll Paper Unit (option)**
It can help to print for roll paper with big diameter up to **200mmΦ**



### Ticket Printing

*~ FP-32Lcan print large amount of tickets~*

**Point1: Fanfold Paper**



FP-32L is flexible for "Fanfold paper" for printing large amount of tickets smoothly.

Of course!!
FP-32L can print the paper with **Black Mark sensor** and **Transmissive sensor .**

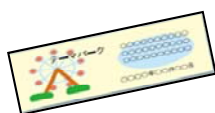

**Example for business scenes**
Healthcare
Manufacturing
Logistics
Foods

**Example for business scenes**
Cinema, Concert
Amusement Park
Boarding tickets
Airline, Logistics, Manufacturing

## ■ <u>Other Features</u>

### Feature1: A variety of Interface for your needs

You can choose interface depending on the intended use in your business.

**RS232C (25pin)**

**USB (2ports)**

**Dual (25pin serial)**

**LAN**

*Powered USB (under developing)
*Bluetooth (under developing)

If you are interested in them, please contact us.
FIT can customize the printer for your request.

### Feature2: Easy Maintenance

The print method of FP-32L is direct thermal printing.
You can save…

➡ **The cost for purchase ribbons**

➡ **Complicated exchanging ribbons for the maintenance**

### Feature3: High reliability

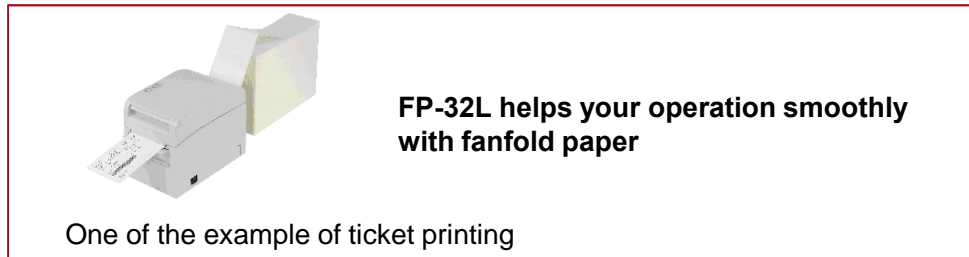| 150 km | Print head life is 150km by high quality overcoat. |
| 1million | Cutter life is 1 million cuts (Die-cut label).<br>  * FIT original development and high performance cutter |
| 70 million | MFCB is 70 million lines. |

# Flexible for various business scenes 1



## ■ Case Study1: Amusement

- Printing tickets for **Amusement Park , Sports tickets, and Cinema**, etc…

    **Example: Boarding pass tickets for cruise  in Singapore**

    **Ticketing in convenience store in Japan**



**FP-32L helps your operation smoothly with fanfold paper**

One of the example of ticket printing
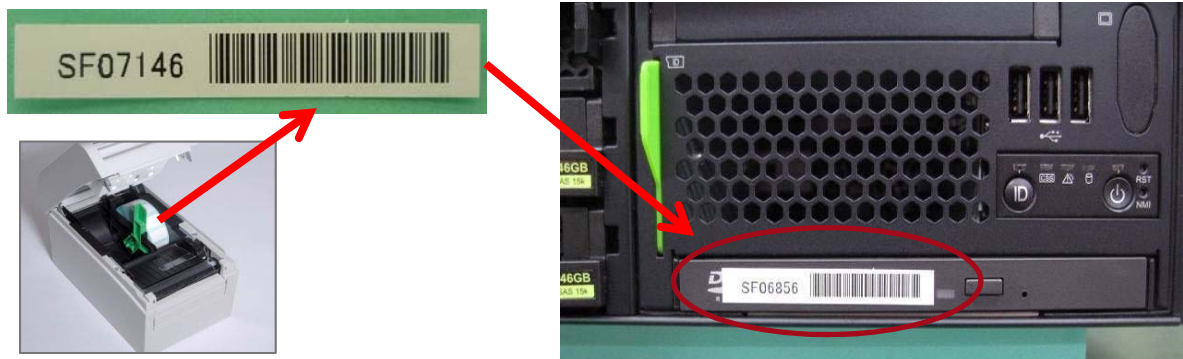
## ■ Case Study2: Manufacturing

- Printing labels for **packing label** and **identification tag**, etc…

    **Example: Manufacturing line in Japan**
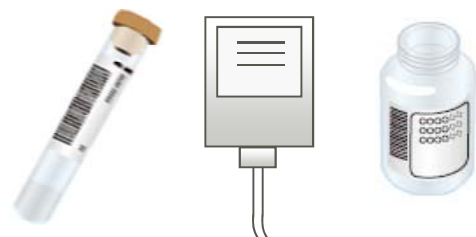
    **Product label in China**



SF07146

SF06856

**You can change the label width depending on usage.**
 **⇒1inch ~ 3 inch**

## ■ Case Study2: Healthcare

- **Printing labels for analyte, infusion or drug medicine … etc.**

    **Example: Academic Medical Center, Civilian Hospital in Japan**



■ Hematological value        2ml
xx, xxx, 20xx        Division of cardiovascular

Mr. Test Test2                        Male

a 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 a
ID:12345567890                0123456-1

# Flexible for various business scenes 2

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■ Sample Print: These are samples for various scenes.

Example: Manufacturing



Example: Healthcare



Example: Food



Example: Amusement (Ticket)

# How to use FP-32L

# How to use

We would like to introduce main usage.
These are useful functions.

## ■ Setup of paper width (Separator of printer)

・Paper width less than 70mm → Please move Separator A to right and left.
・Paper width 80mm → Please remove Separator A.
・Paper width 83mm → Please remove Separator B



**Separator A**



**Separator A**
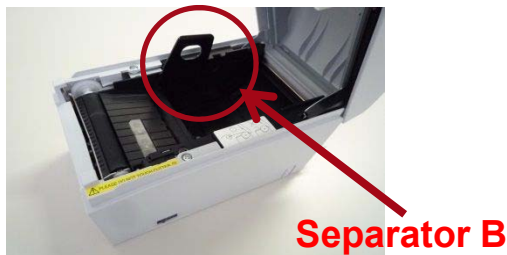


**Separator B**



**Separator B**

## ■ Register of paper layout (PC and Printer)

FP-32L driver provides a function that allows you to set printer layout information.

Ex: Windows7 version

**Steps**

1. Open the property of FP-32L driver.

2. Open the Custom Paper tab.

3. Select "Create a New Paper.

4. Fill out "Paper Name", "Paper Type", and size of paper.

5. Please click "Save" and "Transfer to Printer" after finishing inputting information.

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## ■ Automatic layout detection (Resister to printer)

FP-32L has the function to obtain paper layout information automatically.
This function can detect and register;
→ **kinds of paper (Die-cut label, Black mark, receipt, label)**
→ **Paper layout (length)**
→ **Adjustment sensors (Die-cut label)**

**Steps**

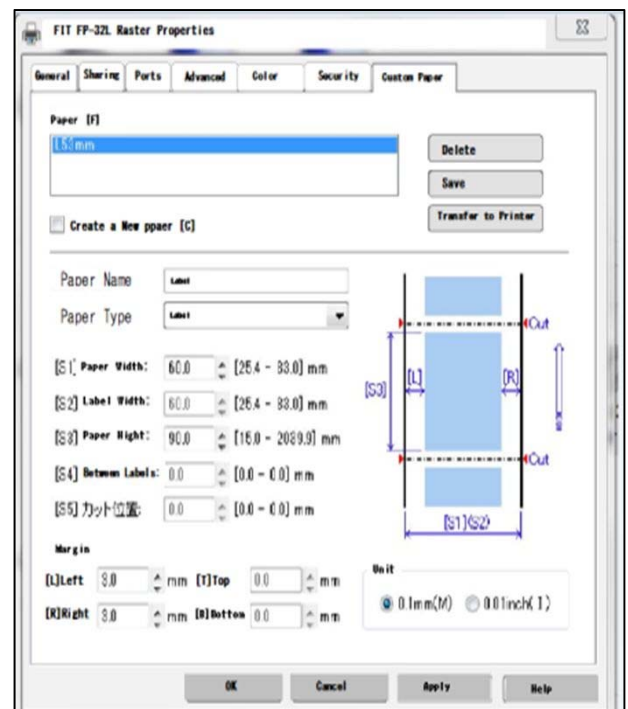1.  Setting paper

2.  Press and hold the feed button and lamp is blinking. (Cover is opened.)

3.  FP-32L starts detecting the paper layout after cover is closed

Note1: It cannot detect paper width.
Note2: The range of available printing in default is 70mm (width).
If you use the paper which is more than 70mm (width),
please setup by the property of Windows driver.

# Example

You can print labels or tickets from your Excel file or Words file.

## ■ Printing label from Excel file



This label (Sample) can be printed from your Excel file.

80mm

90.5mm

## Step1: Registering paper custom

1. Open "Start" of windows.

2. Select the "Control Panel".

*Printer Driver
Windows Driver
OPOS Driver
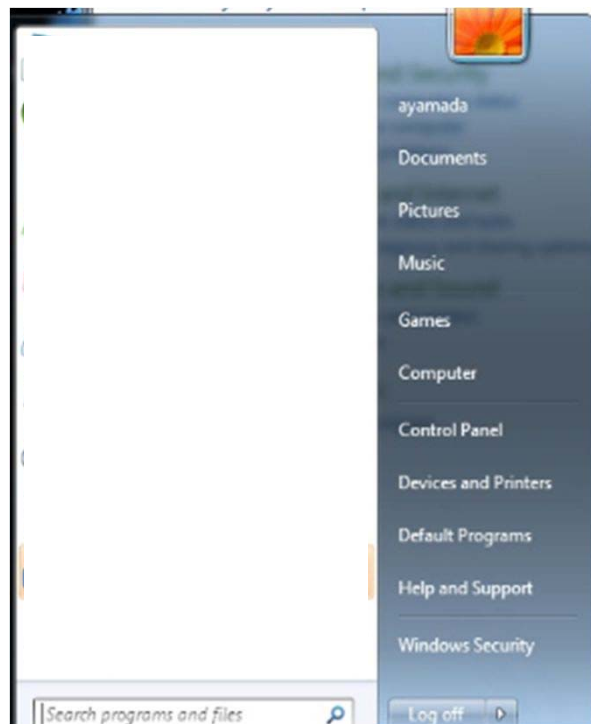
# Example

3. Select "View device and printer"
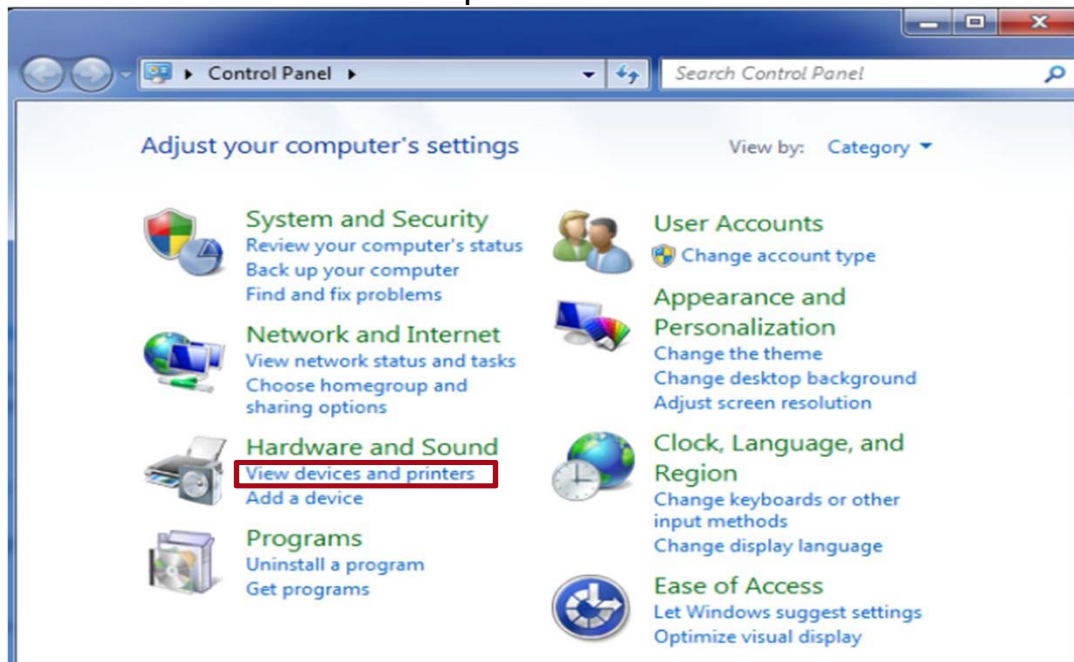


4. Right click of "FP-32L Raster"
5. Select the "Printer properties"
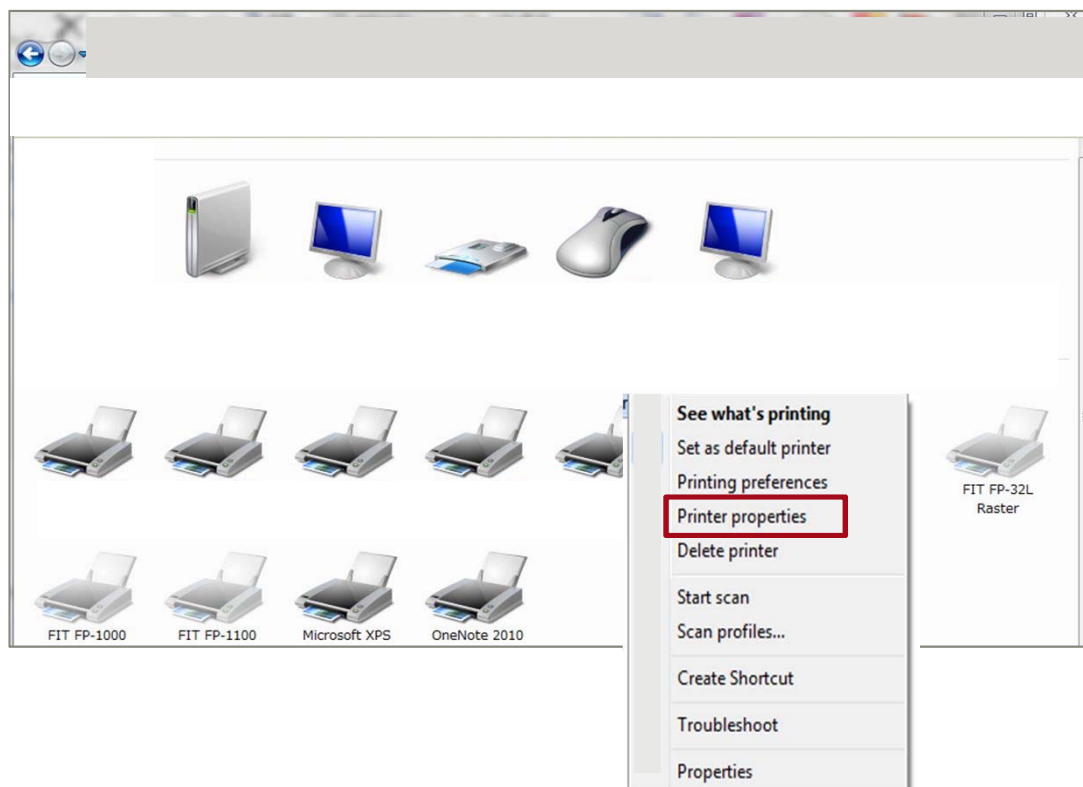
# Example

6. Select "Custom Paper".

7. Check the "Create a New Paper".

8. Fill out the Paper Name.

9. Select "Paper Type".

10. Fill out "Paper Width"

11. Fill out "Paper Height"

12. Click "Save".

13. Click "Apply".

14. Click "OK".
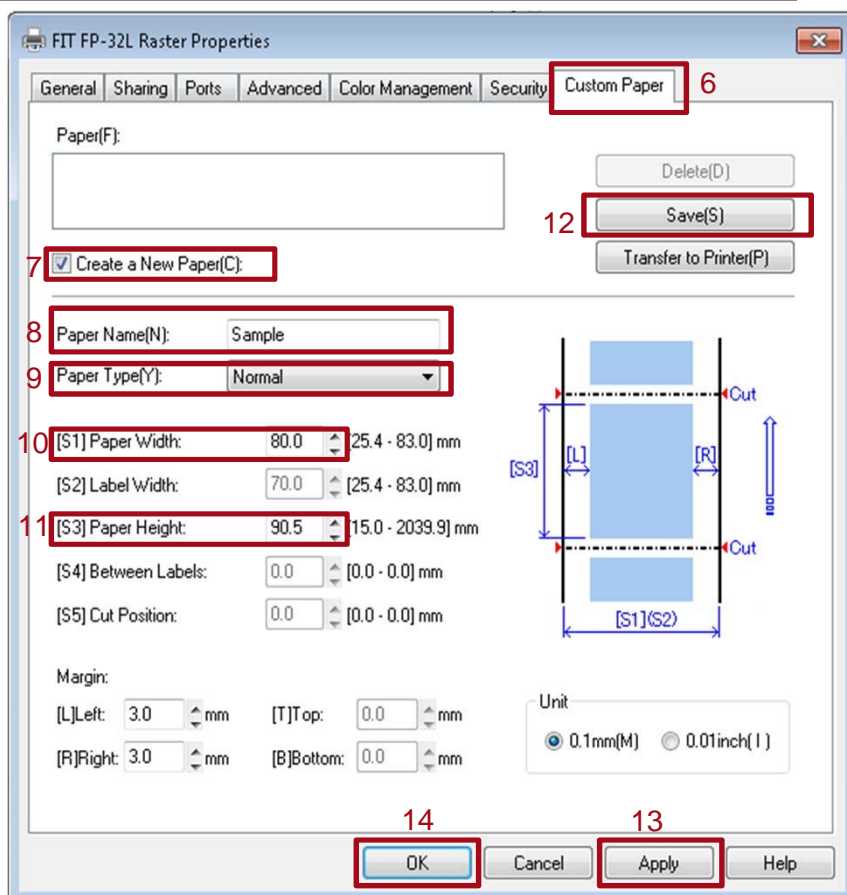


## Step2: Printing from Excel file

1. Open the Excel file

2. Select "File" tab.

3. Select "Print" tab.

4. Select "FP-32L Raster" from Printer tab.

5. Select the paper name that you register in printer properties.

6. Click "Print"
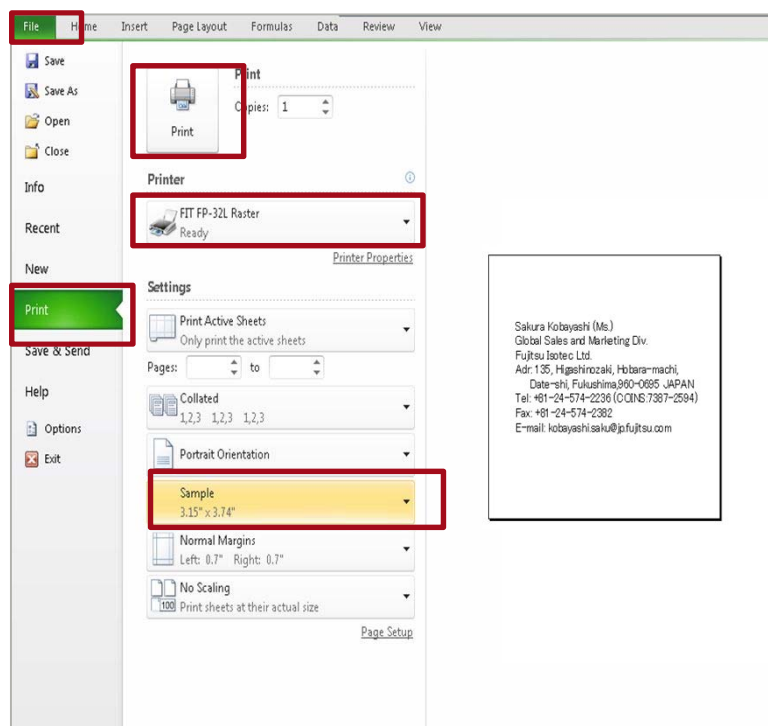
※There is a possibility that the default version of margin or printing position is printed.

Top of Form Position
→ 12.0mm

Reducing Blank Lines is On.

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\<Default version\>
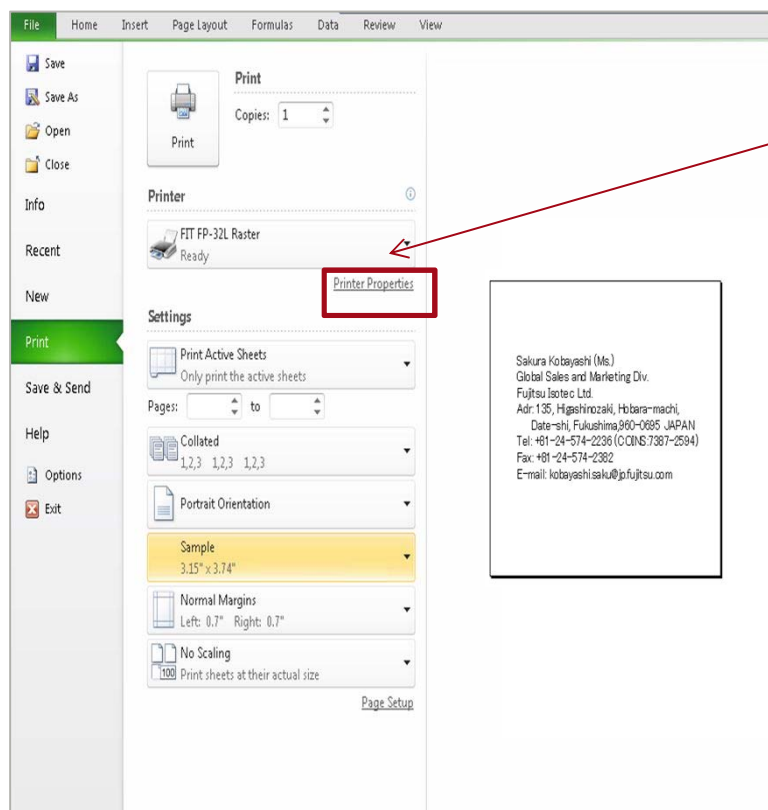
If you want to change the paper layout from the default version,

You can change the details from "Printer Properties" in Excel file.

# Example

<The method of changing details in Printer Properties in Excel file>

1. Click "Printer Properties"
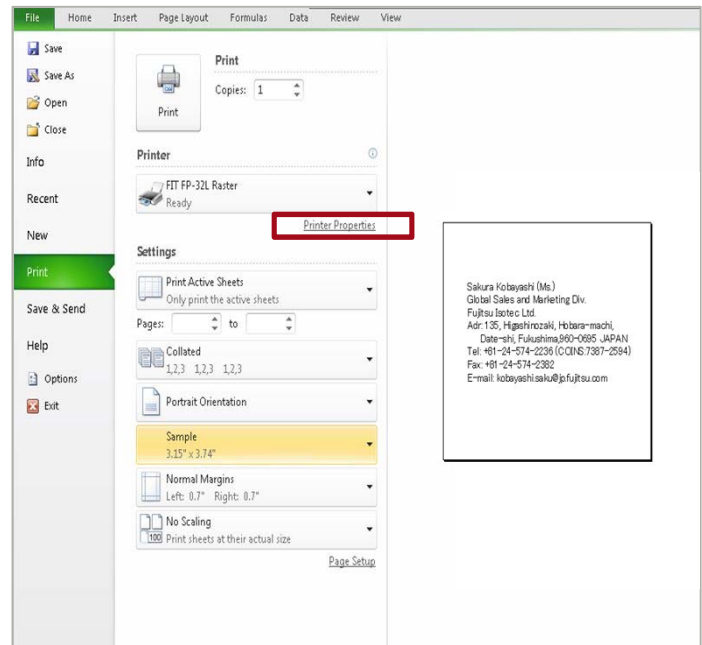


2. Click
   "Paper cut and Paper feed"
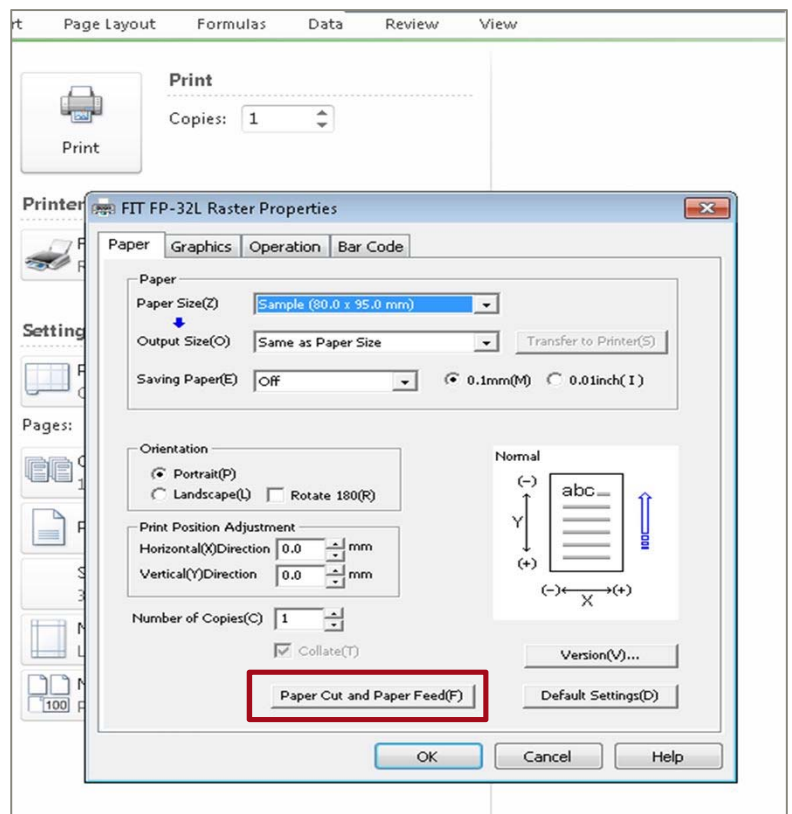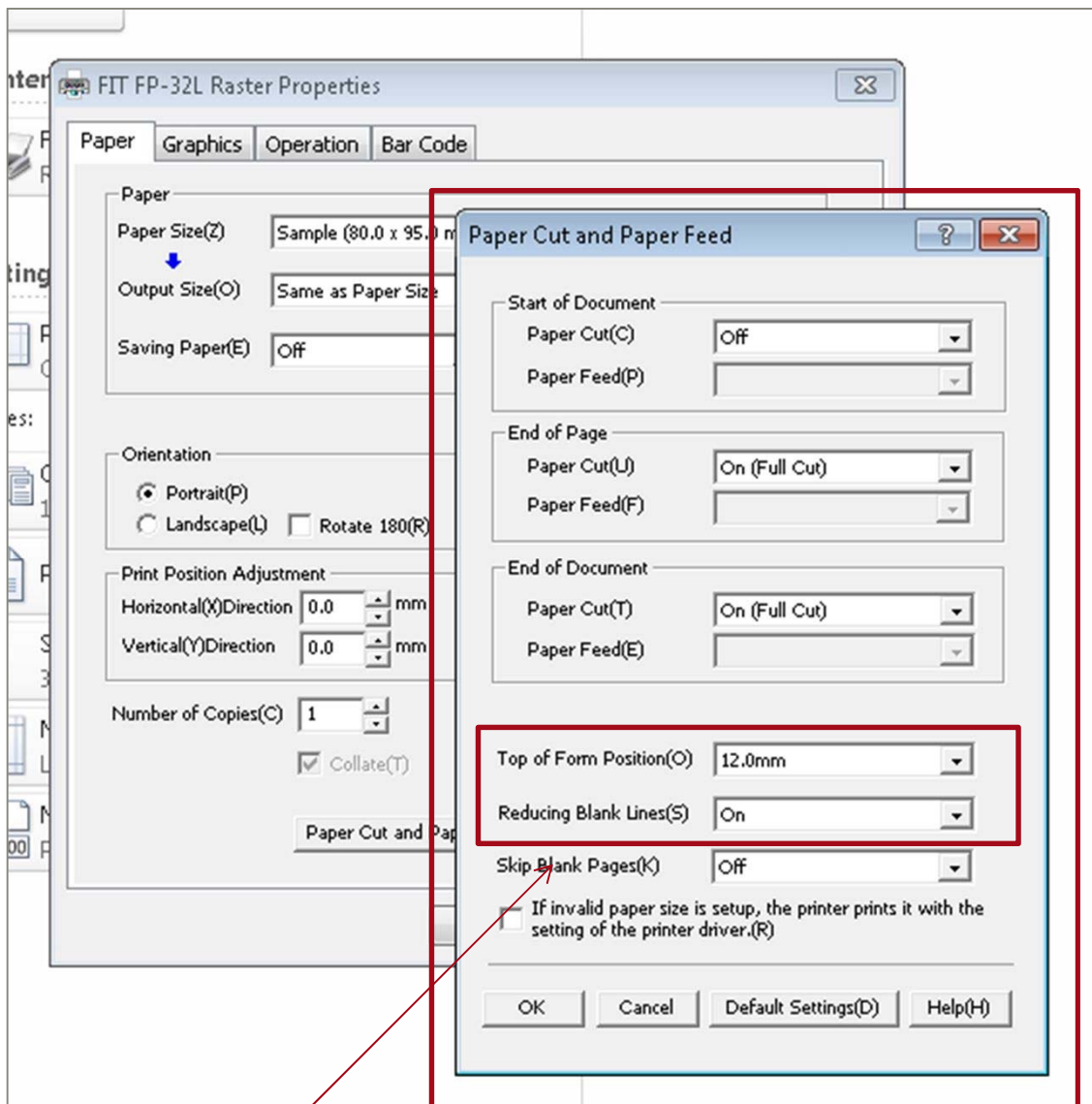
3. Please check the following contents
　・Top of Form Position (O)
　・Reducing Blank Lines (S)

　※Default : Top of Form Position →12.0mm
　　　　　　Reducing Blank Lines →On

※ Top of Form Position
12.0mm → 1.5mm

The margin space becomes
reduced in size.

# Example

※ Reducing Blank Lines
On → Off

※ Top of Form Position
12.0mm → 1.5mm

**Paper Cut and Paper Feed**

Start of Document
- Paper Cut(C): Off
- Paper Feed(P):

End of Page
- Paper Cut(U): On (Full Cut)

- Paper Cut(T): On (Full Cut)
- Paper Feed(E):

- Top of Form Position(O): 1.5mm(Priority is quality)
- Reducing Blank Lines(S): Off
- Skip Blank Pages(K): Off
- ☐ If invalid paper size is setup, the printer prints it with the setting of the printer driver.(R)

OK    Cancel    Default Settings(D)    Help(H)

The margin space becomes reduced in size.

Margin is appeared.

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# Specifications

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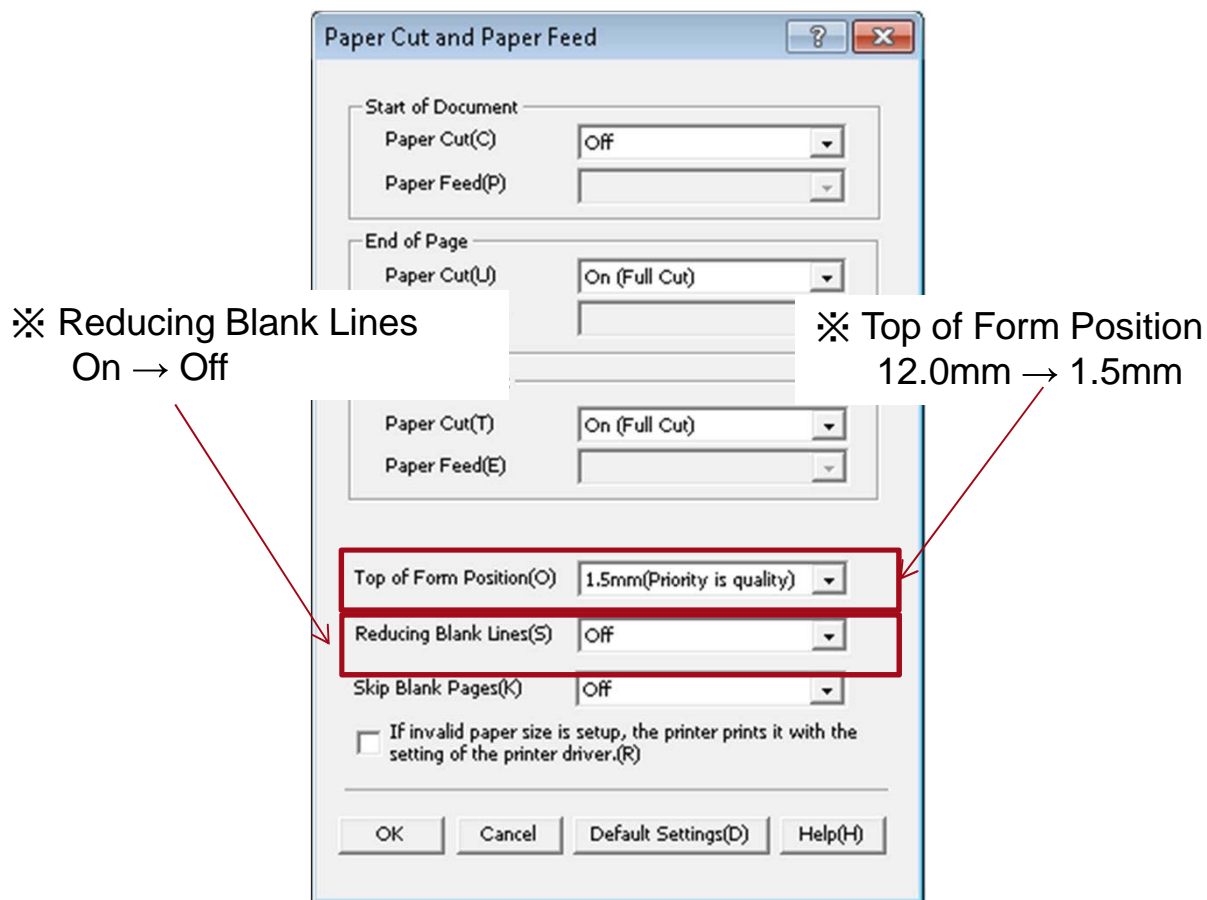
| | | |
|---|---|---|
| Print Method | Direct Line Thermal Recording Method | |
| Print Resolution | 8dot/mm (203 dpi) | |
| Print Speed | | |
|     One color | Up to 260mm/second (69 lps) *1   (58 ~ 83mm paper width)<br>Up to 140mm/second (37 lps) *1   (38 ~ 57mm paper width)<br>Up to 80mm/second (21 lps) *1   (25.4 ~ 37mm paper width) | |
|     Two color | Up to 115mm/second (30 lps) *1 | |
| Line feed | 3.75mm (Standard), Programmable 0 ~ 900mm | |
| Paper Feed-out Direction | Front feed out | |
| Auto cutter | Full-cut cutter (Standard)<br>Programmable Partial-cut and Full-cut cutter (Factory option) | |
| Auto cutter position | 12mm(Standard) or Programmable 1.5mm distance between cutter and top of form | |
| Paper specification | | |
|     Paper thickness | 75μm(0.075mm) ~ 150 μm(0.150mm) | |
|     Roll diameter | Up to φ102mm (Paper thickness : 75 ~ 150μm) | |
| Maximum Print Width | | |
|     25.4mm width paper | 20mm(160dots) | |
|     70mm width paper | 64mm(512dots) | |
|     80mm width paper | 64mm(512dots) or 72mm(576dots) | |
|     83mm width paper | 80mm(640dots) | |
| Column and Character | | |
|     25.4mm width paper | Font A(13 column),      Font B(16/17 column),      Font C(20 column) | |
|     70mm width paper | Font A(42 column),      Font B(51/56 column),      Font C(64 column) | |
|     80mm width paper | Font A(42 or 48 column), Font B(51/56 or 57/64 column), Font C(64 or 72 column) | |
|     83mm width paper | Font A(53 column),      Font B(64/71 column),      Font C(80 column) | |
| Character set | | |
|     1byte | ANK(95 char.), International Charater(48 char.), Enlarged Graphics(128 char. X 20 pages), Download Character(95 char.) | |
|     2bytes | JIS1&2 Kanji(6879 char.) JISX0208-1990, User-Defined Character(94 char.), Special Characters(845 char.) | |
| Barcode | | |
|     One dimension | UPC-A, UPC-E, EAN8, EAN13, CODE39, ITF(Interleaved Two of Five code), CODABAR(NW-7), Code 93, Code 128, GS1-DataBar(RSS), EAN-128(GS1-128) | |
|     Second dimension | PDF 417, DataMatrix, Maxi code,QR code | |
| Logo Store | 3Mbit (384K byte) | |
| Input voltage | +24VDC+-10% | |
| Power Consumption | Standby:3W/0.1A, Operating: Average 44W/1.5A | |
| Paper near end and Paper end sensor | Horizontal usage(Standard) | |
| Reflective paper sensor for Black mark | Standard | |
| Transmissive paper sensor for Die-cut label and notch | Standard | |
| Buzzer | One buzzer (Standard) | |
| Peripheral Drive Circuit | 1 port, 2 circuits, Max.1A | |
| Safety and EMC Standard | CSA, UL, TUV, CE mark, CCC, VCCI class A, FCC class A, EN55022 class A (Depend on models) | |
| Dimensions | 128mm(W) x 207mm(D) x 145mm(H) | |
| Wight | Approx. 1.9 kg | |
| Interface | | |
|     RS232C I/F | RS232C with Power supply (D-SUB 25 pins) | |
|     USB I/F | USB2.0 Full speed (Type-B x 1port) and Type-A x 2 ports | |
|     Parallel I/F | Centronics IEEE-1284 Nibble Mode Compliance (Anphenol 36 pins) | |
|     RS232C + USB I/F | RS232C(D-SUB 9 pins) + USB2.0(Full speed) (Type-B x 1port) | |
|     LAN I/F | 10 BASE-T/100BASE-TX (RJ-45 x 1port) | |
| Printer Driver | Windows® 2000, Windows Server² 2003, Windows Server® 2008, Windows® XP, Windows Vista®,Windows®7,Windows Server® 2008 R2<br>OPOS (V1.10 compliance) | |
| Software Interface | Standard ESC/POSTM | |
| Reliability | | |
|     Printer | 70 million lines (MCBF) *1 | |
|     Print head | 150km (One color), 75km (Two color) *1 | |
|     Cutter | 2 million cuts (Paper thickness 75μm) *1, 0.5 million cuts(Paper thickness 150μm) *1, 1 million cuts (Die-cut label) *1, 1 million cuts / (Cont. label with cleaning) *1 | |
| Operating condition | | |
|     Temperature | 0°C ~ 40°C | |
|     Humidity | 10% ~ 95%RH (without condensation, Highest wet bulb temperature:29°C or less) | |
| Storage condition | | |
|     Temperature | -20°C ~ 60°C | |
|     Humidity | 5% ~ 95%RH (without condensation) | |
| RoHS and FUJITSU Environment Assessment | Standard | |
| Options | Roll paper unit (max.φ200mm) | |

*1 Based on FUJITSU measurement and quality standards.
All specifications are subject to change without notices,
 *2 Depending on Language specification

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If you have questions, please free to contact to the following contact information .

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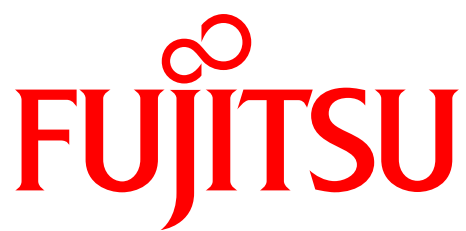960-0695 JAPAN

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We are looking forward to hearing from you.

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shaping tomorrow with you