TS248

PC INTERFACE

通讯协议

| 1. | †令字 | 2 |
|----|----------------------|----------|
| 2. | i讯流程概述 | 4 |
| 3. | 3 和收款机连接/断开通讯 | 6 |
| 4. | 、款机上传参数到PC | 6 |
| 5. | 下传参数到收款机 | 7 |
| 6. | [据规格说明 | 8 |
| 7. | · 表数据 | <u>9</u> |
| 8. | ;误代码 | 32 |

1. 命令字

| ECR-PC | | 命令字 |
|--------------|---|------------|
| 2 | 单条PLU数据上传 | 2 |
| 3 | PLU库存数据上传 | 3 |
| 4 | 单个部类数据上传 | 4 |
| 5 | 单个收款员数据上传 | 5 |
| 6 | 单条头部信息上传 | 6 |
| 7 | 单条尾部信息上传 | 7 |
| 8 | 单条口味信息上传 | 8 |
| 9 | 单组系统标志上传 | 9 |
| 10 | 单个百分比数据上传 | 10 |
| 11 | 单条外币参数上传 | 11 |
| 12 | COUPON信息上传 | 12 |
| 13 | 单个refund数据上传 | 13 |
| 14 | 单个支付方式上传 | 14 |
| 15 | 单个套餐上传 | 15 |
| 16 | 单条TAX数据上传 | 16 |
| 17 | 单个端口设置参数上传 | 17 |
| 18 | 单个KP设置参数上传 | 18 |
| 19 | RP参数上传 | 19 |
| 20 | 单条礼券信息上传 | 20 |
| 21 | 单个促销参数上传 | 21 |
| 22 | 促销文本信息上传 | 22 |
| 23 | 按键描述符信息上传 | 23 |
| 24 | 预置现金数据上传 | 24 |
| 25 | 报表组数据上传 | 25 |
| 26 | R模式可编程描述符上传 | 26 |
| 27 | 服务费参数上传 | 27 |
| 28 | 单条供应商信息上传 ************************************ | 28 |
| 29 | 单条称重PLU信息上传 | 29 |
| 30 | 单条部门组参数上传 单条分组信息上供 | 30 |
| 31 | 单个台组信息上传 | 31 |
| | | _ |
| 32 | 通信下标子命令(信息) | Z |
| 22 | スコイヤクマ | 00 |
| 33 | 通讯连接命令 | 98 |
| 34 DC ECD | 断开通讯命令 | 99 今太守 |
| PC-ECR | 重要能方的DLI/田太人如DLIJ工类类》 | 命令字 101 |
| 1 | 重置所有的PLU(用在全部PLU下载前) | 101 |

| 2 | 单条PLU数据下载 | 102 |
|----|--------------|-----|
| 3 | PLU库存数据下载 | 103 |
| 4 | 单个部类数据上传 | 104 |
| 5 | 单个收款员数据上传 | 105 |
| 6 | 单条头部信息上传 | 106 |
| 7 | 单条尾部信息上传 | 107 |
| 8 | 单条口味信息上传 | 108 |
| 9 | 单组系统标志上传 | 109 |
| 10 | 单个百分比数据上传 | 110 |
| 11 | 单条外币参数上传 | 111 |
| 12 | COUPON信息上传 | 112 |
| 13 | 单个refund数据上传 | 113 |
| 14 | 单个支付方式上传 | 114 |
| 15 | 单个套餐上传 | 115 |
| 16 | 单条TAX数据上传 | 116 |
| 17 | 单个端口设置参数上传 | 117 |
| 18 | 单个KP设置参数上传 | 118 |
| 19 | RP参数上传 | 119 |
| 20 | 单条礼券信息上传 | 120 |
| 21 | 单个促销参数上传 | 121 |
| 22 | 促销文本信息上传 | 122 |
| 23 | 按键描述符信息上传 | 123 |
| 24 | 预置现金数据上传 | 124 |
| 25 | 报表组数据上传 | 125 |
| 26 | R模式可编程描述符上传 | 126 |
| 27 | 服务费参数上传 | 127 |
| 28 | 单条供应商信息上传 | 128 |
| 29 | 单条称重PLU信息上传 | 129 |
| 30 | 单条部门组参数上传 | 130 |
| 31 | 单个台组信息上传 | 131 |
| | | |
| | | |

删除单条PLU记录

25

3 Ts235E -P-

200

2. 通讯流程概述

(1) PC下载数据到收款机

| PC SIDE | DIRECTION | ECR SIDE | TIME-OUT PERIOD |
|---------------|----------------------|----------|--------------------|
| ENQ | <i>→</i> <i>←</i> | ACK | 10 sec. (Max) |
| 命令字包数据 | \rightarrow | | 10 sec. (Max) |
| 下传带下标参数的 | ← → | ACK | 10 sec. (Max) |
| 包 | ← | ACK | 10 sec. (Max) |
| 下传带下标参数的 包 | \rightarrow | | 10 sec. (Max) |
| 2 | ← | ACK | |
| EOF | \rightarrow | 结束本次通讯 | |
| | | | |

注意: 下标从1开始

(2) PC获取收款机数据

| PC SIDE | DIRECTION | ECR SIDE | TIME-OUT PERIOD |
|--|----------------------|-------------------|--------------------------------|
| ENQ | → ← | ACK | 10 sec. (Max) |
| 命令字包数据 | \rightarrow | | 10 sec. (Max) |
| 需要获取的参数的 | ← → | ACK | 10 sec. (Max) |
| 位置 | < | ACK | 10 sec. (Max) |
| ACK/NAK | ← → | 对应的数据信息 | 10 sec. (Max) |
| 需要获取的参数的 位置 | → | | 10 sec. (Max) |
| <u>比 </u> | ← | ACK | 10 sec. (Max) |
| EOF | ← → | 对应的数据信息 结束本次通讯 | 10 sec. (Max) 10 sec. (Max) |

NAK: ECR将重发数据,最多三次

注意:参数的位置从1开始

(a) 命令包信息如下:

STX +CMD + CS +ETX

Name 含义 数值 STX Start Of Text 0x02

CMD Command 命令字(含义根据情

况变化)

ETX End Of Text 0x03

(b) 参数的位置包信息如下

STX + Z + data + CS + ETX

Name含义数值STXStart Of Text0x02ZCommand(恒定命令不变化

字)

Data 数据区 不同包的数值不同

CS 累加和 见后面

ETX End Of Text 0x03

(c) 数据包信息如下

STX + data + CS +ETX

Name 含义 数值 STX Start Of Text 0x02

Data 数据区 每个字段以0x1c作为分割

符

CS 累加和 见后面 ETX End Of Text 0x03

CS 计算:

从STX后的数据开始直到校验和之前的所有数据累加之和,采用字节累加的形式得到的校验和取其十进制值的后两位的ASCII码即可得校验和.

5

/61/11

STX +"1"+ ID + password+ PCCPV + CS +ETX

STX :0X02 CMD : 1 ID : A

Password: 1234 PCCPV: 1

发送数据位:

STX 31 1C 41 1C 31 32 33 34 1C 31 1C 32 31 ETX

 $CS \ = \ 0x31 + 0x1C + 0x41 + 0x1C + 0x31 + 0x32 + 0x33 + 0x34 + 0x1C + 0x31 + 0x1C \ = \ 0xDD \ = \ 221$

注意:整个数据区都是ASCII码,且每个字段之间用分隔符0x1C区别.

3. PC和收款机连接/断开通讯

1. PC和收款机开始通讯--系统配置信息同步检测,用户名,密码,版本号检测

| PC | 方向 | ECR |
|--------|---------------|------|
| ENQ | \rightarrow | |
| | \leftarrow | ACK |
| 发送联机命令 | \rightarrow | |
| | ← | ACK |
| 参数包 | \rightarrow | |
| | - | ACK |
| | ← | 系统配置 |
| EOF | \rightarrow | 结束通讯 |

注意: 当PC上检测到系统配置信息与收款机不同时,PC上需要和收款机同步.

当PC上检测到系统配置信息与收款机不同时,需要发送断开连接命令给收款机当PC和收款机开始通讯时,先发送此名字检测PC和收款机状态是否一致,PC上设置的用户名和密码是否可用,版本号是否可用.

参数包数据区域内容为:

ID + password+ PCCPV

| Name | 含义 | 数值 |
|----------|-----------|--------|
| ID | 访问收款机的ID号 | 先不检测 |
| | 码 | |
| Password | 访问收款机的密码 | 6位 |
| PCCPV | 版本控制信息 | (先不检测) |

2. 断开通讯

| PC SIDE | DIRECTION | | ECR SIDE | TIME-OUT PERIOD |
|----------|---------------|-----|----------|--------------------|
| ENQ | \rightarrow | | | 10 sec. (Max) |
| | ← | ACK | | 10 sec. (Max) |
| 发送断开连接命令 | \rightarrow | | | 10 sec. (Max) |
| | ← | ACK | | 10 sec. (Max) |
| 结束本次通讯 | ← | EOF | | |

在通讯结束时需要发送此命令到收款机

4. 收款机上传参数到PC

1. ECR上传单条PLU到PC

| PC | 方向 | ECR |
|-----------|---------------|--------|
| ENQ | → ← | ACK |
| 命令包(2)命令 | → • | |
| 参数包(****) | ← → | ACK |
| , | ← | ACK |
| | (| PLU数据包 |
| EOF | \rightarrow | 结束通讯 |

上传ECR没有的PLU数据: ECR反馈给PC 'PLU不存在'. 参数包(*****):

单条PLU上传:参数包为PLU条码

全部PLU上传:参数包为PLU位置,当收款机上已经没有PLU可发送给PC了,

则只需要检测PLU状态字段即可.

2. ECR上传单条部类信息到PC

| PC | 方向 | ECR |
|----------------------|-----------------|-------|
| ENQ | \rightarrow | |
| ^ ^ / / / | (| ACK |
| 命令包(4)命令 | → ← | ACK |
| 参数包(上传部类号) | \rightarrow | ACK |
| | - | ACK |
| | < | 部类数据包 |
| EOF | \rightarrow | 结束通讯 |

全部上传部类时同此命令. 上传部类号用于确定上传的部类号.从1开始.

3. ECR其他信息上传到PC --参考部类上传

5. PC下传参数到收款机

1) 下载单条PLU数据到ECR

| PC SIDE | DIRECTION | ECR SIDE | TIME-OUT PERIOD |
|------------|---------------|----------|--------------------|
| ENQ | → ← | ACK | 10 sec. (Max) |
| 命令包(102)命令 | \rightarrow | | 10 sec. (Max) |
| 带下标的PLU数据包 | ← → | ACK | 10 sec. (Max) |
| 市下你的PLU数据包 | ` | ACK | 10 sec. (Max) |
| EOF | \rightarrow | 结束本次通讯 | |

注意: 下载全部PLU到ECR也采用此流程,只是需要循环发送(带下标的PLU数据包). 注意空记录的传送: PC 端有N个PLU,下载N次PLU数据到ECR,不需要全部PLU都传送到ECR.

2) 重置全部PLU数据

| | PC SIDE | DIRECTION | | ECR SIDE | TIME-OUT PERIOD |
|-----|---------|---------------|-----|----------|--------------------|
| ENQ | | \rightarrow | | | 10 sec. (Max) |
| | | ← | ACK | | 40 (37) |
| | | | | | 10 sec. (Max) |

命令包(101)命令 **→ ←** ACK 10 sec. (Max) 结束本次通讯 **←** EOF

全部传送PLU数据到ECR时先发送此命令,再循环发送PLU数据到ECR.

PC 上删除单条PLU 与ECR的通讯

| PC SIDE | DIRECTION | | ECR SIDE | TIME-OUT PERIOD |
|------------------|-----------------|-----|----------|--------------------|
| ENQ | → | ACK | | 10 sec. (Max) |
| A A ((200) A A | | ACK | | 10 sec. (Max) |
| 命令包(200)命令 | → ← | ACK | | 10 sec. (Max) |
| 结束本次通讯 | < | EOF | | |

注意: PC上每次通讯前需要检查是PLU的删除记录中是否有数据,需要先传送需删除的PLU记录给ECR; 如果PC在删除PLU的时候与ECR通讯不成功,无需报错,需要将待删除记录保存等待下次与ECR通讯的将其发送到ECR以保证PC与ECR数据一致.

3) PC下载单条部类数据到ECR

| PC SIDE | DIRECTION | ECR SIDE | TIME-OUT PERIOD |
|------------|---------------|----------|--------------------|
| ENQ | \rightarrow | | 10 sec. (Max) |
| | ← | ACK | |
| | | | 10 sec. (Max) |
| 命令包(104)命令 | \rightarrow | | |
| | (| ACK | 10 sec. (Max) |
| 带下标部类数据包 | \rightarrow | | |
| | ← | ACK | 10 sec. (Max) |
| EOF | \rightarrow | 结束本次通讯 | |

4) 其他参数下载均可参考部门下载

6. 数据规格说明

1) System configuration data

| Index | Name | Type | Length (Bytes) | Notes | |
|-------|-------------------|---------|----------------|-------------------|------------------------------|
| 1 | Work mode | Numeric | 3 | 0x55: retail | in retail mode, TABLE, |
| | | | | 0xAA: hospitality | C.M.,MENU can't be accessed. |
| 2 | Department number | Numeric | 3 | 0~200 | The ECR and PC must |
| | | | | | be the same number |
| 3 | Clerk number | Numeric | 2 | 0~50 | The PC must |

| | | | | | be more than the ECRs |
|---|-------------------|---------|---|------------------------------------|--|
| 4 | Main Table number | Numeric | 2 | 0-50 | The ECR and PC must |
| 5 | Split Number | Numeric | 1 | 0~5 | be the same number |
| 6 | Modifier number | Numeric | 4 | 0~7000 | The ECR and PC must be the same number |
| 7 | PLU number | Numeric | 5 | 0-30000 | The PC must be more than the ECR |
| 8 | System dots | Numeric | 1 | 0:0 1:0.0 2:0.00 3:0.000 | The ECR and PC must be the same |
| 9 | Tax system | Numeric | 1 | 0:ADD-ON TAX 1:VAT 2:GST-PST | The ECR and PC must be the same number |

注意:

其中 部门数目,Modifier数目,台数目,系统小数点,税系统 收款机和PC上必须保持一致. 工作模式不同,只导致一些参数不能通讯.在零售模式,口味,套餐,台编程是不能通讯的. 收银员数目,PLU数目,PC上可多于收款机上的数目,但通讯的时候需要提示用户'PC和收款机不同步,

会造成数据丢失',同时需要将未通讯信息保存在错误日志中.

2) PLU stock data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|--------------|----------------|----------------|-------------|-----------|---------------------|
| 1 | Barcode | Numeric string | 13 | \boxtimes | | |
| 2 | Safety stock | Numeric | 9 | \boxtimes | \square | 0-99999.999 固定三个小数点 |
| 3 | Stock | Numeric | 9 | \boxtimes | \square | 0-99999.999 固定三个小数点 |

Note: data format is Binary.

For all PLU stock, it will have 30 PLU each package.

3) PLU Preset data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-----------------|----------------|----------------|-------------|-------------|----------------|
| 1 | Status | Numeric | 1 | \boxtimes | \boxtimes | 0:有数据 |
| | | | | | | 1: 已经没有数据了 |
| 2 | Barcode | Numeric string | 13 | \boxtimes | | |
| 3 | Price | Numeric | 7 | \boxtimes | \square | 0-999999 系统小数点 |
| 4 | Price2 | Numeric | 7 | \boxtimes | \square | 0-99999系统小数点 |
| 5 | Price3 | Numeric | 7 | \boxtimes | \square | 0-99999系统小数点 |
| 6 | Deptparment No. | Numeric | 3 | \boxtimes | \boxtimes | 1~最大部门号 |
| 7 | Name | Char string | 18 | \boxtimes | \boxtimes | |
| 8 | Name2 | Char string | 18 | \boxtimes | \boxtimes | |

| 9 | a) PRICE FORMAT b) menu ** c) stock active d) IsCondiment** e) Exempt Service Tax** f) FS Tenderable | Numeric | 6 | | | a: PRICE FORMAT 0:OPEN (def) /1:PRESET PRICE b: menu 0:N(def)o/1: Yes c: stock active: 0:No(def)/1: Yes d: IsCondiment: 0:No(def)/1: Yes e: Exempt Service Tax:0:No(de f)/1: Yes f: FS Tenderable 0:No(def)/1: Yes |
|----|--|----------------|----|-------------|-------------------------|--|
| 10 | Number of modifiers | Numeric | 1 | \boxtimes | \boxtimes | 0~5 |
| 11 | PLU Modifiers 1 Price | Numeric | 7 | | \square | 0-99999 系统小数点 |
| 12 | PLU Modifiers 1 quantity | Numeric | 8 | \boxtimes | $\overline{\mathbf{Z}}$ | 0-9999.999(fixed 3 dots) |
| 13 | PLU Modifiers 1 Name | Char string | 18 | | | |
| 14 | PLU Modifiers 2 Price | Numeric | 7 | | $\overline{\mathbf{Z}}$ | 0-99999 系统小数点 |
| 15 | PLU Modifiers 2 quantity | Numeric | 8 | | $\overline{\mathbf{Z}}$ | 0-9999.999(fixed 3 dots) |
| 16 | PLU Modifiers 2 Name | Char string | 18 | | | |
| | | | | | | |
| 23 | PLU Modifiers 5 Price | Numeric | 7 | | | 0-99999 系统小数点 |
| 24 | PLU Modifiers 5 quantity | Numeric | 8 | | Ø | 0-9999.999(fixed 3 dots) |
| 25 | PLU Modifiers 5 Name | Char string | 18 | | | |
| 26 | Number of condiments | Numeric | 1 | | | 0~12 |
| 27 | Selection No. of condiments | Numeric | 1 | | \boxtimes | 0~12,这个字段的值必须小于 等于字段13的值 |
| 28 | Condiments Member1 Barcode | Numeric string | 13 | | | |
| 29 | Condiments Member1 quantity | Numeric | 5 | | | 1000~50000 |
| 30 | Condiments Member2 Barcode | Numeric string | 13 | | | |
| 31 | Condiments Member2 quantity | Numeric | 5 | | | 1000~50000 |
| 40 | Condiments Member12 Barcode | Numeric string | 13 | | | |
| 41 | Condiments Member2 quantity | | 5 | | | 1000~50000 |
| 42 | CmNum | Numeric | 1 | \boxtimes | \boxtimes | 0~6 |
| 43 | CmIdx1 | Numeric | 3 | \boxtimes | \boxtimes | 0-最大口味 |
| 72 | CmIdx30 | Numeric | 3 | | | 0-最大口味 |
| 73 | Safety stock | Numeric | 9 | | \mathbf{Z} | 0-99999.999 固定三个小数点 |
| 74 | Stock Stock | Numeric | 9 | | | 0-99999.999 固定三十小数点 0-99999.999 固定三个小数点 |
| /- | DIOCK | 1 vallicite | | | Y | 0-7/777777 四代— 小奴尽 |

在单条PLU通讯前,如果当前PLU设置了condiments,请先发送condiments PLU数据到收款机,避免上下不一致;全部PLU的通讯则不需要此操作

每个调味品PLU的数量都是可选的,范围是1-50,但在通讯的时候需要X1000,表示数量(数量默认带三个小数位)

*库存:在更新库存时有三种更新方式:增加/覆盖/减少

增加:原有库存量+新输入库存量 覆盖:新增加的库存量覆盖原有库存量

4) Dept. Preset Data

| Inde x | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-----------|---|-------------|----------------|-------------|-------------|--|
| 1 | Dept No. | Numeric | 3 | \boxtimes | \boxtimes | 1~200 |
| 2 | Price | Numeric | 8 | \boxtimes | \square | 系统小数点 |
| 3 | a):mode b):type c):halo d):age ef):Tax g): FS Tenderable | Numeric | 6 | | | a):mode 0:Standard/1:Gallon/2:Negative b):type 0:Normal/1:Single c):halo 1-7 d):age 0:Non/ 1:Age 1/ 2:Age 2 ef):VAT: 0-5 TAX:0~15 GST-PST:0~15 g):1:YES/ 0:N0(def) |
| 4 | Name | Char string | 18 | \boxtimes | \boxtimes | |
| 5 | a:group bc:KP de:KP2 f:PRICE FORMAT g:Kp format h:Tax Type | Numeric | 8 | | | a:0-9 bc:KP :0~14 de:KP2 :0~14 f: PRICE FORMAT 0:OPEN 1:PRESET PRICE g:Kp format: 0: Single item 1: Multiple items h:0:Fixed; 1:Variable |

Tax Type: when the system tax is vat type, and system falg 'select vat type for dept' is YES, then this flag c an modify, or it is 1: variable for default.

Fox example:

Dept No. 1
Price 1.23
mode 0:Standard
type 0:Normal

halo 7

 $\begin{array}{ll} \text{age} & \quad \text{0:None} \\ \text{Tax} & \quad \text{00} \\ \text{FS Tenderable} & \quad \text{0} \end{array}$

Name DEPT01 Group 0

 $\begin{array}{ccc} \text{KP} & & 01 \\ \text{KP2} & & 00 \\ \text{PRICE FORMAT} & & 0: \text{ OPEN} \end{array}$

Kp formatTax Type1: Multiple items1: Variable

Data area: 1,1.23,70000, DEPT01,100011,

Hex: 31 1c 31 2e 32 33 1c 37 30 30 30 1c 44 45 50 54 30 31 1c 31 30 30 30 31 31

11

Note: 对应组合的数据需要从第一个不为零的位置开始.

If the data as following:

 Group
 0

 KP
 00

 KP2
 00

 PRICE FORMAT
 0: OPEN

 Kp format
 0: Single item

Tax Type 0: Fixed

Then data area will be: 1,1.23,70000, DEPT01, ,

5) Clerk Preset Data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|---|-------------|----------------|-------------|-------------|--|
| 1 | Clerk number | Numeric | 2 | \boxtimes | \boxtimes | 1~50 |
| 2 | pass code | Numeric | 4 | \boxtimes | \boxtimes | 0~9999 |
| 3 | Interrupt No. | Numeric | 2 | \boxtimes | \boxtimes | 0~99 |
| 4 | Name | Char string | 12 | \boxtimes | \boxtimes | |
| 5 | void Discount R.M. RA/PO PLU price list Not Found X report Z report | Numeric | 8 | | | Limitation: 1:allow 0: not allow |
| 6 | Programming Refund coupon Rcpt On/Off EJ Access TABLE #NS Voucher/Credit | Numeric | 8 | | | Limitation: 1:allow 0: not allow |
| 7 | Change payment Comp FOC Payment | Numeric | 4 | | | Limitation: 1:allow 0: not allow |

6) Store header Preset Data

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|----------------------|-------------|----------------|-------------|-------------|---|
| 1 | Store header number | Numeric | 1 | \boxtimes | \boxtimes | 1~5 |
| 2 | Store header font | Numeric | 1 | | \boxtimes | 1:normal 2:double width 3:double height 4:Quadruple |
| 3 | Store header message | Char string | 42 | \boxtimes | \boxtimes | |

7) Footer logo Preset Data

| Index | | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|--------|-------------|---------|----------------|-------------|-------------|-------------------------|
| 1 | Footer | logo number | Numeric | 1 | \boxtimes | \boxtimes | 1~5 |
| 2 | Footer | logo font | Numeric | 1 | \boxtimes | \boxtimes | 1:normal 2:double width |

| | | | | | | 3:double height 4:Quadruple |
|---|---------------------|-------------|----|-------------|-------------|--------------------------------|
| 3 | Footer logo message | Char string | 42 | \boxtimes | \boxtimes | |

8) system status Preset Data

| Status1 | ABCDEFGH | |
|---------|----------------------------------|---------------------|
| A | Print date on receipt | YES: 1(def) / NO: 0 |
| В | Print time on receipt | YES: 1(def) / NO: 0 |
| С | Print clerk on receipt | YES: 1(def) / NO: 0 |
| D | Print Header on receipt | YES: 1(def) / NO: 0 |
| Е | Print Footer on receipt | YES: 1(def) / NO: 0 |
| F | Print Blank line on receipt | YES: 1 / NO: 0(def) |
| G | Print Subtotal Amount on receipt | YES: 1(def) / NO: 0 |
| Н | Print Machine No. on receipt | YES: 1(def) / NO: 0 |

| Status2 | ABCDEFGH | |
|---------|---------------------------------|---------------------|
| A | Print Receipt No. on receipt | YES: 1(def) / NO: 0 |
| В | Print Tax amount on receipt | YES: 1(def) / NO: 0 |
| С | Print Tax total on receipt | YES: 1(def) / NO: 0 |
| D | Print item Tax code on receipt | YES: 1(def) / NO: 0 |
| Е | Print Vat analysis on receipt | YES: 1(def) / NO: 0 |
| F | Print Vat No. on receipt | YES: 1(def) / NO: 0 |
| G | Print Total Quantity on receipt | YES: 1(def) / NO: 0 |
| Н | Print Dept No. on receipt | YES: 1 / NO: 0(def) |

| Status3 | ABCDEFGH | |
|---------|---------------------------------|---------------------|
| A | Print Local Currency symbol | YES: 1 / NO: 0(def) |
| В | Print barcode when PLU sale | YES: 1 / NO: 0(def) |
| C | Picture LOGO print | YES: 1(def) / NO: 0 |
| D | Print cover on receipt | YES: 1(def) / NO: 0 |
| Е | Print slip header | YES: 1 / NO: 0(def) |
| F | Print sign line | YES: 1 / NO: 0(def) |
| G | Print food stamp mark | YES: 1 / NO: 0(def) |
| Н | Print average amount on receipt | YES: 1(def) / NO: 0 |

| Status4 | ABCDEFGH | |
|---------|---|-----------------------------|
| A | Print #/NS information | YES: 1(def) / NO: 0 |
| В | (print the sale receipt)Receipt ON/OFF | 0: OFF / 1:ON (def) |
| C | Consolidation same item RP | YES: 1 / NO: 0 (def) |
| D | KP print R.M. item | YES: 1 (def) / NO: 0 |
| E | Reprint receipt for R.M | YES: 1 / NO: 0 (def) |
| F | KP print Comp item | YES: 1 / NO: 0 (def) |
| G | Duplicate receipts allowed | YES: 1 (def) / NO: 0 |
| Н | Print bill after transaction void | YES: 1 (def) / NO: 0 |

| Status5 | ABCDEFGH | |
|---------|---|-----------------------------|
| A | Print bill after transfer table/combine table | YES: 1 / NO: 0 (def) |
| В | Print CM on receipt | YES: 1 / NO: 0 (def) |

| С | Position of receipt# print | 0:Foot /1:Head (def) |
|----|------------------------------|-----------------------------|
| D | Position of logo print: | 0:Foot /1:Head (def) |
| Е | Print items when close table | 0:No(def)/1:All/2:Last List |
| | Item descriptor at RP | 0: English(def) |
| F | | 1: Chinese |
| | | 2: Both |
| GH | reserve | 0 |

| Status6 | ABCDEFGH | |
|---------|----------------------------------|---------------------|
| A | Inventory function active | YES: 1 / NO: 0(def) |
| В | Zero price for Dept/PLU sale | YES: 1(def) / NO: 0 |
| C | EJ features active | YES: 1(def) / NO: 0 |
| D | Compulsory Declaration | YES: 1 / NO: 0(def) |
| Е | Reset Grand Total after Z Report | YES: 1 / NO: 0(def) |
| F | Clerk System active | YES: 1 / NO: 0(def) |
| G | Clerk Logging in P mode | YES: 1 / NO: 0(def) |
| Н | IButton Logon Active | YES: 1 / NO: 0(def) |

| Status7 | ABCDEFGH | |
|---------|------------------------------|---------------------|
| A | Currency Symbol choice | YES: 1 / NO: 0(def) |
| В | Enable key tone | YES: 1(def) / NO: 0 |
| C | Compulsory Clerk Declaration | YES: 1 / NO: 0(def) |
| D | Second Z Sales Report Active | YES: 1(def) / NO: 0 |
| Е | Used Gift delete when full | YES: 1 / NO: 0(def) |
| F | Select Vat Type for Dept | YES: 1 / NO: 0(def) |
| G | Label print automatically | YES: 1 / NO: 0(def) |
| Н | Send data to CCTV | YES: 1 / NO: 0(def) |

| Status8 | ABCDEFGH | |
|---------|-----------------------------------|---------------------|
| A | Not Found active | YES: 1 / NO: 0(def) |
| В | Not Found Prompt choice | YES: 1(def) / NO: 0 |
| С | Consolidate the items on the KP | YES: 1 / NO: 0(def) |
| D | Cover function active | YES: 1(def) / NO: 0 |
| Е | Allow to trans void | YES: 1(def) / NO: 0 |
| F | Allow to TSVD before suspend | YES: 1(def) / NO: 0 |
| G | Allow to E.C. item before suspend | YES: 1(def) / NO: 0 |
| Н | Mark item more than 1 on kp | YES: 1 / NO: 0(def) |

| Status9 | ABCDEFGH | |
|---------|---------------------------|--------------------------|
| | Clerk Pass code digits | 0:3digits(def) |
| A | | 1:4digits |
| В | Rounding method | 0:4/5(def)/1: up /2:down |
| Б | | 3:special |
| | Gift Voucher change | 0:No return |
| C | | 1:Local currency(def) |
| | | 2:Payment Media |
| DE | Line Feed Count | 06(max -15) |
| Б | VAT note for Teles Arress | 0:Vat1/1:Vat2/2:Vat3/ |
| F | VAT rate for Take-Away | 3:Vat4/4:Dept Vat(def) |

| G | VAT rate for In-House | 0:Vat1/1:Vat2/2:Vat3/ 3:Vat4/4:Dept Vat(def) |
|---|---------------------------|---|
| Н | VAT rate for Out-Of-House | 0:Vat1/1:Vat2/2:Vat3/ 3:Vat4/4:Dept Vat(def) |

| Status10 | ABCDEFGH | |
|----------|--------------------------------|-----------------------|
| | PLU price for Take Away | 0:None/1: Price1/ |
| A | | 2: Price2/3: Price3 |
| В | KP Print Setting | 0:Single items |
| D | | 1:Multiple items(def) |
| С | Enable key description refresh | YES: 1(def) / NO: 0 |
| D | Change to tips need confirm | YES: 1 / NO: 0(def) |
| Е | Food Stamp Rule | 0: New Jersey(def) |
| E | | 1: illinois |
| F | Food Stamp Exempt Tax | YES: 1 / NO: 0(def) |
| G | PLU FS attribute active | YES: 1 / NO: 0(def) |
| Н | Disc Calc Tax on Gross | YES: 1 / NO: 0(def) |

| Status11 | ABCDEFGH | | |
|----------|---|--|--|
| A | Special RM active | YES: 1 / NO: 0(def) | |
| В | %&refund with Service tax YES: 1(def) / | | |
| С | Report export device | 0: UDisk(def) 1: SDCard | |
| D | Duplicate receipt counter | 0-9 | |
| Е | Other Rounding Factor | 0 : None (def) 1: Europe 2: Malaysia | |
| F | Tax system | 0: ADD-ON TAX (def) 1:VAT; 2:GST-PST | |
| GH | RESERV | 0 | |

| Status12 | ABCDEFGH | |
|----------|-----------------------------|---------------------|
| A | RM/NS data add to report | YES: 1(def) / NO: 0 |
| В | VD/TSVD data add to report | YES: 1(def) / NO: 0 |
| С | Clerk Rpt detail analysis | YES: 1 / NO: 0(def) |
| D | Allow Z Rpt When open Table | YES: 1 / NO: 0(def) |
| Е | Print Machine# on report | YES: 1(def) / NO: 0 |
| F | Print PLU barcode on report | YES: 1(def) / NO: 0 |
| G | Print header on reports | YES: 1(def) / NO: 0 |
| Н | Print VAT No. on reports | YES: 1(def) / NO: 0 |

| Status13 | ABCDEFGH | |
|----------|---------------------------|---------------------|
| A | Cover data add to report | YES: 1(def) / NO: 0 |
| В | Zero item skip for report | YES: 1(def) / NO: 0 |
| С | Print the zero inventory | YES: 1(def) / NO: 0 |
| D | Print the Z counter | YES: 1(def) / NO: 0 |
| Е | Print Total Transactions | YES: 1(def) / NO: 0 |
| F | Compulsory PM Declaration | YES: 1 / NO: 0(def) |

| G | Comp report print Qty/Counter | 0: Counter | | | | |
|-----------------------------------|---|------------------------------|--|--|--|--|
| U | | 1: Quantity(def) | | | | |
| Н | RESERV | 0 | | | | |
| G 14 | ADODERON | | | | | |
| Status14 | ABCDEFGH | 10(| | | | |
| AB CD | Payment information display time | 10(max 60s) | | | | |
| EFG | Change info display time Table color change time | 10(max 60s) 255(max 255M) | | | | |
| H | Take out print tickets | 255(max 255NI) 2 (max 3) | | | | |
| 11 | Take out print tiekets | 2 (max 3) | | | | |
| Status 15 ABCDE | | | | | | |
| ABC | Maximum tips amount | 0 (max 500) | | | | |
| DE | Logo select | 0-11 | | | | |
| | | | | | | |
| + | ABCDEF | | | | | |
| ABCDEF | Training mode pass code | 0-99999(123456) | | | | |
| G | A D GD DEGY | | | | | |
| Status17 | ABCDEFGH | 0.00000000 | | | | |
| ABCDEFGI | H HALO | 0-99999.99 | | | | |
| Status18 ABCDEFGH | | | | | | |
| ABCDEFGI | | 0-999999.99 | | | | |
| | | | | | | |
| Status19 | ABCDEFGH | | | | | |
| ABCD | Daily Z counter preset | 0000 -9999 | | | | |
| EFGH | Periodic Z counter preset | 0000-9999 | | | | |
| | | | | | | |
| Status20 | ABCDEFGH | 0001 0000 | | | | |
| ABCD | Receipt No. preset | 0001-9999 | | | | |
| EFGH | Machine No. preset | 0001-9999 | | | | |
| Status21 | ABCD | | | | | |
| AB | Age limit1 | 16 (1-99) | | | | |
| CD | Age limit2 | 19 (1-99) | | | | |
| | | | | | | |
| Status22 | ABCDEFGH | | | | | |
| ABCD | happy hour Price2 start time | ННММ | | | | |
| EFGH | happy hour Price2 end time | ННММ | | | | |
| | L D GD DTGV | | | | | |
| Status23 | ABCDEFGH | Imp o / | | | | |
| ABCD | happy hour Price3 start time | HHMM | | | | |
| EFGH | happy hour Price3 end time | HHMM | | | | |
| Status24 ABCDEFG(happy hour days) | | | | | | |
| A | Sunday | YES: 1 / NO: 0(def) | | | | |
| В | Monday | YES: 1 / NO: 0(def) | | | | |
| C | Tuesday | YES: 1 / NO: 0(def) | | | | |
| D | Wendnesday | YES: 1 / NO: 0(def) | | | | |
| Е | Thursday | YES: 1 / NO: 0(def) | | | | |
| | Friday | YES: 1 / NO: 0(def) | | | | |

| G | Saturday | YES: 1 / NO: 0(def) |
|---|----------|---------------------|
| | | |

| Staus25 | ABCDEFGH - Table barcode | |
|---------|--------------------------------|----------------------|
| A | Table barcode operate type | 0: Don't Surport; 1: |
| | | Tender; 2: Open |
| В | Table bar prn after print list | 0: NO; 1: YES |
| C | Table bar prn after suspend | 0: NO; 1: YES |
| D | Table bar prn after Transfer | 0: NO; 1: YES |
| E | Scale unit | 0:lb 1: oz |
| F | Tare type | 0:automatic 1:manual |
| GH | reserve | 0 |

Status26: Scale Depatrment 01(numeric,0-200) Status27: Scale Depatrment 02 numeric,0-200) Status28: Scale Depatrment 03(numeric,0-200) Status29: Scale Depatrment 04(numeric,0-200) Status30: Scale Depatrment 05(numeric,0-200) Status31: Scale tare1 (numeric, 0- 599800) Status32: Scale tare2 (numeric, 0- 599800)

Status40: Scale tare10 (numeric, 0- 599800) Staus41: Vat No (character, Max 15 bytes)

Status42:FTP mailer Name: (character, Max 14 bytes) Status43:FTP mailer code: (character,Max 14 bytes) Status44:FTP tenant code: (character,Max 14 bytes)

Status45:FTP IP: (character, Max 15 bytes)

Status46:FTP User Name:(character,Max 12 bytes) Status47:FTP password: (character, Max 12 bytes)

Weighing PLU

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|---------------------------------|---------|----------------|-------------|-------------|-----------------------------------|
| 1 | Weighing PLU No. | Numeric | 2 | \boxtimes | \boxtimes | 1~11 |
| 2 | Туре | Numeric | 1 | \boxtimes | \boxtimes | 0: Normal PLU; 1: Weighing PLU |
| 3 | Barcode length | Numeric | 1 | \boxtimes | \boxtimes | 1-9 |
| 4 | Weight/Amount | Numeric | 1 | \boxtimes | \boxtimes | 0: Amount; 1: weight |
| 5 | Weight/Amount with check digit: | Numeric | 1 | \boxtimes | \boxtimes | 0: No; 1: Yes |
| 6 | Decimal dots: | Numeric | 1 | \boxtimes | \boxtimes | 0:0; 1:0.0; 2:0.00; 3:0.000 |
| 7 | ID | Numeric | 2 | \boxtimes | \boxtimes | 0-99 |

10) Cooking Message Preset Data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-----------------|-------------|----------------|-------------|-------------|----------|
| 1 | C.M. number | Numeric | 3 | \boxtimes | \boxtimes | 1~200 |
| 2 | price | Numeric | 7 | \boxtimes | \square | 0~999999 |
| 3 | Cooking Message | Char string | 24 | \boxtimes | \boxtimes | |

11) Percentage Preset Data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|----------------------------------|-------------|----------------|-------------|-------------|--|
| 1 | percentage number | Numeric | 1 | \boxtimes | \boxtimes | 1~8 |
| 2 | Rate | Numeric | 6 | \boxtimes | \square | 0~99.999 (fixed 3 dots) |
| 3 | a: Attribute b: +/- Selection | Numeric | 2 | | | a: Attribute 0:After Item&Subttl/ 1:After Subttl/2:After Item/ 3:Locked b: +/- Selection 0:+% (def)/1:-% |
| 4 | Name | Char string | 12 | \boxtimes | \boxtimes | |

12) Refund

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|---------------|-------------|----------------|-------------|-------------|-------------------------|
| 1 | Refund number | Numeric | 1 | \boxtimes | \boxtimes | 1~8 |
| 2 | price | Numeric | 8 | \boxtimes | Ŋ | 0-999999(system dots) |
| 3 | HALO | Numeric | 8 | \boxtimes | \square | 0-9999999(system dots) |
| 4 | Name | Char string | 12 | \boxtimes | \boxtimes | |

13) Coupon program Preset Data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-------|---------|----------------|-------------|-----------|------------------------|
| 1 | price | Numeric | 8 | \boxtimes | \square | 0-9999999(system dots) |
| 2 | HALO | Numeric | 8 | \boxtimes | \square | 0-999999(system dots) |

14) FCE program Preset Data

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|--|-------------|----------------|-------------|-------------|---------------------------------|
| 1 | FCE number | Numeric | 1 | \boxtimes | \boxtimes | 1~4 |
| 2 | a: Decimalb: symbol | Numeric | 2 | | \boxtimes | a: Decimal 0-3 b: symbol 1-7 |
| 3 | Local | Numeric | 6 | \boxtimes | \square | 0-99999(system dots) |
| 4 | FC | Numeric | 6 | \boxtimes | \square | 0-99999(fc dots) |
| 5 | Name | Char string | 12 | \boxtimes | \boxtimes | |

15) Payment Preset Data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|----------------|---------|----------------|-------------|-------------|-------|
| 1 | Payment number | Numeric | 1 | \boxtimes | \boxtimes | 1~10 |

| 2 | Change return | Numeric | 1 | \boxtimes | \boxtimes | 0:No Return |
|---|------------------|-------------|----|-------------|-------------|------------------|
| | - | | | | | 1:Local currency |
| | | | | | | 2:Payment Media |
| 3 | Duplicate number | Numeric | 1 | \boxtimes | \boxtimes | 0-9 |
| 4 | Changes to tips | Numeric | 1 | \boxtimes | \boxtimes | 0:No; 1: Yes |
| 5 | Туре | Numeric | 1 | \boxtimes | \boxtimes | 0:Noraml |
| | | | | | | 1:Credit |
| | | | | | | 2: Debit |
| | | | | | | 3:EBT |
| 6 | Name | Char string | 18 | \boxtimes | \boxtimes | |

16) PCASH preset data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|--------------|-------------|----------------|-------------|-------------|---|
| 1 | Pcash number | Numeric | 1 | \boxtimes | \boxtimes | 1~10 |
| 2 | Price | Numeric | 8 | \boxtimes | \square | 0-9999999(system dots) |
| 3 | Туре | Numeric | 1 | | | 0-9 0: payment1/1: payment2/ 2:payment3/3:payment4/ 4:payment5/5:payment6/ 7:payment8/8:payment9/ 9:payment10 |
| 4 | Name | Char string | 12 | \boxtimes | \boxtimes | |

17) Service Tax

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|--|-------------|----------------|-------------|-------------|--|
| 1 | Service Tax number | Numeric | 1 | \boxtimes | \boxtimes | 1 |
| 2 | Name | Char string | 12 | \boxtimes | \boxtimes | |
| 3 | type | Numeric | 1 | \boxtimes | \boxtimes | 0: fix 1:percantage |
| 4 | rate | Numeric | 5 | | \square | 0: fix 0-99999(system dots) 1:percentage:0-99.999 |
| 5 | Start time#1 | Numeric | 4 | \boxtimes | \boxtimes | HHMM |
| 6 | End time#1 | Numeric | 4 | \boxtimes | \boxtimes | ННММ |
| 7 | Start time#2 | Numeric | 4 | \boxtimes | \boxtimes | HHMM |
| 8 | End time#2 | Numeric | 4 | \boxtimes | \boxtimes | HHMM |
| 9 | Sunday: Monday: Tuesday: Wendnesday: Thursday: Friday: Saturday: | Numeric | 7 | | | 0:No; 1 : yes |

18) TAX Preset Data

VAT:

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|------------|---------|----------------|-------------|-------------|-----------|
| 1 | VAT number | Numeric | 1 | \boxtimes | \boxtimes | 1~4 |
| 2 | RATE | Numeric | 6 | \boxtimes | \square | 0~99.999% |

GST-PTS:

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|---------------|---------|----------------|-------------|-------------|-----------------------|
| 1 | TAX number | Numeric | 1 | \boxtimes | \boxtimes | 1~4 |
| 2 | GST_RATE | Numeric | 6 | \boxtimes | \square | 0~99.999% |
| 3 | GST_LIMIT | Numeric | 7 | \boxtimes | \square | 0~999999 |
| 4 | PST1_RATE | Numeric | 6 | \boxtimes | \square | 0~99.999% |
| 5 | PST1_LIMIT | Numeric | 7 | \boxtimes | \square | 0~99999 |
| 6 | PST2_RATE | Numeric | 6 | \boxtimes | \square | 0~99.999% |
| 7 | PST2_LIMIT | Numeric | 7 | \boxtimes | \square | 0~999999(system dots) |
| 8 | PST3_RATE | Numeric | 6 | \boxtimes | \square | 0~99.999% |
| 9 | PST3_LIMIT | Numeric | 7 | \boxtimes | \square | 0~99999 |
| 10 | TAX limit | Numeric | 1 | \boxtimes | \boxtimes | 0: non gst , 1:Gst |
| 11 | No tax-on-tax | Numeric | 1 | \boxtimes | \boxtimes | 0: no tax-on-tax |
| | | | | | | 1:tax-on-tax |
| | | | | | | 2:tax-on-tax-on-tax |

TAX:

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|---------------|---------|----------------|-------------|-------------|--------------------------|
| 1 | TAX number | Numeric | 1 | \boxtimes | \boxtimes | 1~4 |
| 2 | type | Numeric | 1 | \boxtimes | \boxtimes | 0: straight 1: tax table |
| 3 | irent | Numeric | 2 | \boxtimes | \boxtimes | 0~63 |
| 4 | rgcnt | Numeric | 2 | \boxtimes | \boxtimes | 0~63 |
| 5 | Breaks[1] | Numeric | 5 | \boxtimes | \square | 0-9999(system dots) |
| •••• | | Numeric | 5 | \boxtimes | \square | 0-9999(system dots) |
| 67 | Breaks[63] | Numeric | 5 | \boxtimes | \square | 0-9999(system dots) |
| 68 | Tax value[1] | Numeric | 5 | \boxtimes | Ø | 0-9999(system dots) |
| | | Numeric | 5 | \boxtimes | \square | 0-9999(system dots) |
| 130 | Tax value[63] | Numeric | 5 | \boxtimes | Ŋ | 0-9999(system dots) |
| | | | | | | |

19) Menu Preset Data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-------------------|-------------------|----------------|-------------|-------------|---|
| 1 | Menu number | Numeric | 1 | \boxtimes | \boxtimes | 1~25 |
| 2 | Price | Numeric | 7 | \boxtimes | | 0-99999(system dots) |
| 3 | Mode | Numeric | 1 | \boxtimes | \boxtimes | 0:fixed 1:selectable |
| 4 | Vat | Numeric | 2 | \boxtimes | \boxtimes | 0-4/0-15 |
| 5 | child menu desc1 | Char string | 12 | \boxtimes | \boxtimes | |
| 6 | child menu desc2 | Char string | 12 | \boxtimes | \boxtimes | |
| | | | | | | |
| 16 | child menu desc12 | Char string | 12 | \boxtimes | \boxtimes | |
| 17 | Plu filed | Numeric string | | \boxtimes | \boxtimes | mode: fixed max is 13*24 mode: selectabe max is 1 3*12*18 PLU quantity :1000-50000 |
| 18 | Plu quantity | Numeric | 2 | \boxtimes | \boxtimes | |
| | | Numeric string | | | \boxtimes | |
| | | | | | | |

子套餐由原来的10个增加到12个,子套餐中的PLU数目有20个减少到18个. 固定模式中PLU数目由50个减少到24个

注意:

每个PLU的数量都是可选的,范围是1-50,但在通讯的时候需要X1000,表示数量(数量默认带三个小数位) Note:

If mode is fixed, menu PLU max is 24. if mode is selectable ,it include 12 child menu, each child menu has 1 description and 18 PLUs.

Because data is too big ,so we must sent it with sever packages. The data include two parts.

One:Index + Step(0) + mode+vat + Desc + Price + Desc1+... +Desc12

Other:Index +Step(1-12) + Menu Mode + PLU * 18(each package has 18 PLU barcode,Package max nu mber is 13)

Index is menu No. (1-25)

Step(0-12),0 means send menu's attribute,1-12 means child menu No. if mode is selectable. Wh en mode is fixed it means nothing.

Mode means menu mode ,0:fixed 1:selectable

Example:

(1) when mode is fixed.

Number: 1

Description: Menu 1
Price 1
Mode Fixed
Vat 2

PLU: 1X1000 \(2X1000 \(3X1000 \) 4X1000 \(5X1000 \)

Child description: None

Data transmitted: Package 1: 1,0,0,2,"Menu 1",1,,,,,,,

Package 2: 1,1,0,1,1000,2,1000,3,1000,4,1000,5,1000,,,,,,,,,,,,,,

(2) when mode is selectable

Number: 1

Description: "Menu 1"

Price 1

Mode selsectable

Child menu 1:description:"Selection 1"

PLU: 1X1000,2X2000,3X2000,4X1000,5 X3000

Child menu 2:description:"Selection 2"

PLU: None

Child menu 3:description:"Selection 3"

PLU: None

Child menu 4: description: "Selection 4"

PLU: None

Child menu 5:description:"Selection 5"

PLU: None

Child menu 6: description: "Selection 6"

PLU: None

Child menu 7: description: "Selection 7"

PLU: None

Child menu 8:description:"Selection 8"

PLU: None

Child menu 9: description: "Selection 9"

PLU: None

Child menu 10: description: "Selection 10"

PLU: 3x1000,4 x1000,5 x1000,6 x1000,7 x1000,8 x1000

Child menu 11: description: "Selection 11"

PLU: None

Child menu 12: description: "Selection 12"

PLU: None

Data transmitted:

Package 1: 1,0,1,"Menu 1",1, "Selection 1", "Selection 2", "Selection 3", "Selection 4", "Selection 5", "Selection 6", "Selection 7", "Selection 8", "Selection 9", "Selection 10"," Selection 11", "Selection 12"

Package 2: 1,1,1,1,1000,2,2000,3,2000,4,1000,5,3000,...,

Package 5: 1,4,1,,,,,,

Package 6: 1,5,1,,,,,,,

Package 7: 1,6,1,,,,,,

Package 8: 1,7,1,,,,,,,

Package 9: 1,8,1,,,,,,,,,,

Package 10: 1,9,1,,,,,,,,,

Package 11: 1,10,1,3,1000,4,1000,5,1000,6,1000,7,1000,8,1000,...,

20) Port Preset Data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-------------|---------|----------------|-------------|-------------|---|
| 1 | Port No. | Numeric | 1 | \boxtimes | \boxtimes | 1~5 |
| 2 | Device Type | Numeric | 8 | | | 0: None (无) 1: scanner (条码枪) 2: KP (厨房打印机) 3: CCTV 4: Scale (电子称) 5:PAX 7: RP(只有端口5可选择) |
| 3 | Baud Rate | Numeric | 1 | \boxtimes | | 0:4800 1:9600 |

| | | 2:19200 |
|--|--|----------|
| | | 3:38400 |
| | | 4:57600 |
| | | 5:115200 |

21) KP preset data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-----------------|---------|----------------|-------------|-------------|--|
| 1 | Kp No. | Numeric | 1 | \boxtimes | \boxtimes | 1~13 |
| 2 | KP type | Numeric | 1 | \boxtimes | | 0-TM-88III(EPSON), 1-SRP-245(SAMSUNG), 2-TM-U220 (EPSON) |
| 3 | Head feed | Numeric | 2 | \boxtimes | \boxtimes | 0-20 |
| 4 | Foot feed | Numeric | 2 | \boxtimes | \boxtimes | 0-20 |
| 5 | Cut paper | Numeric | 1 | | \boxtimes | 0: No ; 1:Yes |
| 6 | IP address seg1 | Numeric | 3 | \boxtimes | \boxtimes | 0-255 |
| 7 | IP address seg2 | Numeric | 3 | \boxtimes | \boxtimes | 0-255 |
| 8 | IP address seg3 | Numeric | 3 | \boxtimes | \boxtimes | 0-255 |
| 9 | IP address seg4 | Numeric | 3 | \boxtimes | \boxtimes | 0-255 |
| 10 | Port setting | Numeric | 4 | \boxtimes | | 0-9999 |
| | | | | | | |

22) Gift Certificate

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|----------|-------------------|----------------|-------------|-------------|---|
| 1 | Gift No. | Numeric | 1 | \boxtimes | \boxtimes | 1~500 |
| 2 | Amount | Numeric | 8 | \boxtimes | \square | 0-9999999(system dots) |
| 3 | Code | Character st ting | 7 | \boxtimes | | |
| 4 | Status | Numeric | 2 | \boxtimes | | a) Useflag (1byte,0:No/1:Yes) b) Active (1byte,0:No/1:Yes) |

| 5 | Valid until | Numeric | 8 | \boxtimes | \boxtimes | YYYYMMDD |
|---|-------------|---------|---|-------------|-------------|----------|
|---|-------------|---------|---|-------------|-------------|----------|

Note: Receive all information form ECR,PC send useflag=0 to ECR

23) RP preset data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|---------|---------|----------------|----------|------|---|
| 1 | RP type | Numeric | 1 | | | 0: TM-88III;1 : TM-U220; 2:58mm printer;3:80 mm printer |

24) Key descriptor

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-------------|-------------|----------------|-------------|-------------|-------|
| 1 | Key code | Numeric | 5 | \boxtimes | \boxtimes | |
| 2 | Description | Char String | 18 | \boxtimes | \boxtimes | |

按键列表:

| | | Key o | lescriptor se | tting | |
|-----|-----------------|--------|---------------|------------------|--------|
| 键代码 | 英文 | 中文 | 键代码 | 英文 | 中文 |
| 21 | clear | 清除 | 152 | With | 添加 |
| 22 | Staff | 收银员 | 153 | Without | 去除 |
| 23 | X | X | 87 | bill print | 打印台详单 |
| 25 | Dept | 部门 | 88 | Active Tables | 活动台 |
| 26 | Dept Sale | 部门销售 | 89 | Floor Plan | 图形台 |
| 27 | PLU | PLU | 91 | Tabs | 台 |
| 79 | Detail | 详单 | 92 | Transfer to Tabs | 转台 |
| 111 | Confirm | 确定 | 116 | RA TABLE | 预付款 |
| 112 | Back | 返回 | 117 | COVER | 人数 |
| 113 | Dept List | 部门列表 | 124 | PLU price1 | 第一单价 |
| 114 | Next | 继续 | 125 | PLU price2 | 第二单价 |
| 79 | New Transaction | 新的销售 | 126 | PLU price3 | 第三单价 |
| 39 | subtotal | 小计 | 127 | PR. Lock | 价格锁定 |
| 133 | Payment | 支付方式 | 75 | KP Reprint | 厨打复打 |
| 41 | Rcpt on/off | 收据开关 | 76 | Firing | Firing |
| 43 | Feed | 走纸 | 77 | Split Bill | 分单 |
| 44 | RA | 入账 | 90 | Split table | 分台 |
| 45 | P0 | 出账 | 128 | Price | 价格 |
| 50 | RA/PO | 入账/出账 | 129 | Price Look Up | 价格查询 |
| 46 | Text | 文本 | 100 | MENU | 套餐 |
| 48 | Hold/Recall | 挂单/调单 | 192 | 2X | 2X |
| 49 | recall | 调单 | 193 | 3X | 3X |
| 59 | VOID | 取消 | 194 | 4X | 4X |
| 60 | R. M. | 退货 | 195 | 5X | 5X |
| 61 | E. C. | 改错 | 196 | 6X | 6X |
| 62 | Coupon | Coupon | 197 | 7X | 7X |
| 63 | Comp | Comp | 198 | 8X | 8X |
| 64 | Trans void | 整笔取消 | 199 | 9X | 9Х |
| 154 | Tax1 | 税1 | 200 | 10X | 10X |
| 155 | Tax2 | 税2 | 145 | Voucher/Credit | 礼券/购物券 |

| 156 | Tax3 | 税3 | 78 | Take Away | 外卖 |
|-----|-------------------|-------|------|-------------------|----------|
| 157 | Tax4 | 税4 | 147 | Entertainment | 发票 |
| 158 | non tax | 免税 | 148 | In House | 室内 |
| 115 | Not Found | 添加PLU | 149 | Out of House | 室外 |
| 130 | DIGIT | 数字输入 | 150 | Credit Note | 购物券 |
| 131 | Receipt ReView | 浏览收据 | 151 | Gift Voucher | 礼券 |
| 132 | #NS | 开钱箱 | 1817 | Page Left | 左翻 |
| 70 | FCE | 外币 | 1818 | Page Right | 右翻 |
| 81 | Open Table | 开图形台 | 190 | Service Exempt(S) | 免服务费(单项) |
| 82 | Store | 挂台 | 191 | Service Exempt | 免服务费 |
| 83 | Transfer to Table | 转图形台 | 189 | Change Payment | 转款 |
| 84 | Open Tabs | 开台 | 93 | SLIP | 上菜纸 |
| 85 | Combine | 合台 | 94 | TABLE LISTING | 埋单 |
| 86 | C. M. | 口味 | 95 | LAST TRANS | 最后台交易 |
| 96 | Not Send KP | 不送厨打 | 69 | FOC | 免费 |
| 40 | % | % | 118 | Payment Return | 退款 |
| 201 | HOME | 首页 | 123 | Credit Tips | 小费 |
| 68 | Tare | 皮重 | | | |

25) Bundle PLU

| Inde x | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-----------|-------------------|----------------|----------------|-------------|-------------|--|
| 1 | Bundle PLU number | Numeric | 1 | \boxtimes | \boxtimes | 1~80 |
| 2 | Description | Char string | 18 | | | |
| 3 | type | Numeric | 1 | \boxtimes | \boxtimes | 0-4 |
| 4 | condition | Numeric | 2 | \boxtimes | \square | 0: amount /1:qty |
| 5 | qty/amt | Numeric | 8 | | Ø | Qty:99 Amount:9999999 |
| 6 | discount | Numeric | 6 | | \square | (qty/amt/rate,99/99999/99. 999 |
| 7 | SamePluFlag | Numeric | 1 | | | 0~1,1:some of Free PLU is same as PLUs |
| 8 | Active Numeric | Numeric | 1 | | \boxtimes | 0~1,1:All the parameter a re setting |
| 9 | Free_PLU(1) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 10 | Free_PLU(2) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 11 | Free_PLU(3) | Numeric string | 13 | | \boxtimes | |
| 12 | Membet PLUs (1) | Numeric string | 13 | | \boxtimes | |
| 13 | Membet PLUs (2) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 14 | Membet PLUs (3) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 15 | Membet PLUs (4) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 16 | Membet PLUs (5) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 1217 | Membet PLUs (6) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 18 | Membet PLUs (7) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 19 | Membet PLUs (8) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 20 | Membet PLUs (9) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 21 | Membet PLUs (10) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 22 | Membet PLUs (11) | Numeric string | 13 | \boxtimes | \boxtimes | |
| 23 | Membet PLUs (12) | Numeric string | 13 | \boxtimes | \boxtimes | |

26) Bundle saving text

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|-------------|-------------|----------------|-------------|-------------|-------|
| 1 | Description | Char String | 24 | \boxtimes | \boxtimes | |

27) Flash report

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|------------------|-------------|----------------|-------------|-------------|-------|
| 1 | Flash report No. | Numeric | 1 | \boxtimes | \boxtimes | 15 |
| 2 | Description | Char String | 18 | | \boxtimes | |
| 3 | Report1 | Numeric | 3 | \boxtimes | \boxtimes | |
| 4 | Report2 | Numeric | 3 | | \boxtimes | |
| 5 | Report3 | Numeric | 3 | | \boxtimes | |
| 6 | Report4 | Numeric | 3 | \boxtimes | \boxtimes | |
| 7 | Report5 | Numeric | 3 | | \boxtimes | |
| 8 | Report6 | Numeric | 3 | | \boxtimes | |
| 9 | Report7 | Numeric | 3 | \boxtimes | \boxtimes | |
| 10 | Report8 | Numeric | 3 | | \boxtimes | |
| 11 | Report9 | Numeric | 3 | \boxtimes | \boxtimes | |
| 12 | Report10 | Numeric | 3 | \boxtimes | \boxtimes | |

28) Register Descriptor

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|---------------|-------------|----------------|-------------|-------------|-------|
| 1 | String number | Numeric | 3 | \boxtimes | \boxtimes | |
| 2 | Description | Char String | 24 | \boxtimes | \boxtimes | |

29) Supplier preset data

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|-----------------|-------------|----------------|-------------|-------------|-------|
| 1 | Supplier number | Numeric | 2 | \boxtimes | \boxtimes | 1~20 |
| 2 | Supplier Name | Char string | 30 | | \boxtimes | |

30) dept group Desc

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|-------------------|-------------|----------------|-------------|-------------|-------|
| 1 | Dept Group number | Numeric | 1 | \boxtimes | \boxtimes | 1~9 |
| 2 | Dept Group Desc | Char string | 12 | \boxtimes | \boxtimes | |

31) Table Group

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|----------------------|-------------|----------------|-------------|-------------|-------|
| 1 | Table Group number | Numeric | 2 | \boxtimes | \boxtimes | 1~10 |
| 2 | Table Group Name | Char string | 18 | \boxtimes | \boxtimes | |
| 3 | Table Group Member01 | Numeric | 3 | \boxtimes | \boxtimes | 0~100 |
| 4 | Table Group Member02 | Numeric | 3 | \boxtimes | \boxtimes | 0~100 |
| ••• | | ••• | | ••• | | ••• |
| | | | | | | |
| 21 | Table Group Member19 | Numeric | 3 | \boxtimes | \boxtimes | 0~100 |
| 22 | Table Group Member20 | Numeric | 3 | \boxtimes | \boxtimes | 0~100 |

32) Table Parameters

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|----------------------|-------------|----------------|-------------|-------------|--|
| 1 | Table number | Numeric | 3 | \boxtimes | \boxtimes | 1~100 |
| 2 | Table Desc | Char string | 12 | \boxtimes | \boxtimes | |
| 3 | Table key font color | Numeric | 3 | \boxtimes | \boxtimes | 0~255 |
| 4 | Table key fill color | Numeric | 3 | \boxtimes | \boxtimes | 0~255 |
| 5 | Price Level | Numeric | 1 | X | | 0: None(def) 1:price1 2:price2 3:price3 |
| 6 | KP with red | Numeric | 1 | \boxtimes | \boxtimes | 0:No(Def) 1:Yes |
| 7 | Exempt Service Tax | Numeric | 1 | | \boxtimes | 0:No(Def) 1:Yes |

33) Floor Plan Layout

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|---------------------------------|---------|----------------|-------------|-------------|--|
| 1 | Floor Plan Layout number | Numeric | 1 | | \boxtimes | 1~3,最多三层FLOOR PLAN布局 |
| 2 | Floor plan table number | Numeric | 3 | \boxtimes | \boxtimes | 1~100 |
| 3 | First Key code | Numeric | 4 | \boxtimes | \boxtimes | 901~1000, 0 |
| 4 | First Key font color | Numeric | 3 | \boxtimes | \boxtimes | 0~255 |
| 5 | First Key fill color | Numeric | 3 | \boxtimes | \boxtimes | 0~255 |
| 6 | First Key size | Numeric | 2 | \boxtimes | \boxtimes | 0x00/0x01/0x10/0x11/ 0x12/0x21/0x22/0x31/ 0x13 |
| ••• | | ••••• | ••••• | ••••• | | |
| | 36 th Key code | | | | | 901~1000 |
| | 36 th Key font color | | | | | 0~255 |
| | 36 th Key fill color | | | | | 0~255 |
| | 36 th Key size | | | | | 0x00/0x01/0x10/0x11/ 0x12/0x21/0x22/0x31/ 0x13 |
| | | | | | | 0x13 |

Note:

For the TS248, one floor plan layout have 36 keys, and TS3600 one floor plan has 66 keys.

Ts248 and TS3600 the floor plan has three layouts.

When the Floor plan table number is zero, then the other data can be zero. And it only need send once.

34) Screen Layout preset data

7. 报表数据

1. Daily full report(reserve the current mode,text data)

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-----------------|-------------|----------------|-------------|-------------|---|
| 1 | Description | Char String | 50 | \boxtimes | \boxtimes | |
| 2 | amount | Numeric | 12 | Ø | \square | |
| 3 | Quantity&Couner | Numeric | 11 | | | Quantity:11 bytes max, Contains Negative sign and decimal dot. Counter: 5 bytes max, donot contain Negative si gn or decimal dot. |

2. PLU report

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|------------|---------|----------------|-------------|-------------|-------|
| 1 | PLU number | Numeric | 13 | \boxtimes | \boxtimes | |

| 3 | amount | Numeric | 12 | | \square | System dots |
|---|----------|---------|----|-------------|-----------|------------------|
| 4 | Quantity | Numeric | 11 | \triangle | N | Fixed three dots |

The following report have the similar data type: Menu PLU report

3.Dept report

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-------------|---------|----------------|-------------|-------------|------------------|
| 1 | Dept number | Numeric | 3 | \boxtimes | \boxtimes | 1-200 |
| 3 | amount | Numeric | 12 | \square | \square | System dots |
| 4 | Quantity | Numeric | 11 | \square | \square | Fixed three dots |

4.clerk report

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|--------------|---------|----------------|-------------|-------------|------------------|
| 1 | clerk number | Numeric | 3 | \boxtimes | \boxtimes | 1-50 |
| 3 | amount | Numeric | 12 | \square | \square | System dots |
| 4 | counter | Numeric | 11 | \boxtimes | \boxtimes | 0-99999(no dots) |

The following report have the similar data type:

Bundle report Table report Active table report Menu report

5.hourly report

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|-------------|-------------|----------------|-------------|-------------|------------------|
| 1 | Description | Char String | 50 | \boxtimes | \boxtimes | Description |
| 3 | amount | Numeric | 12 | \square | \square | System dots |
| 4 | counter | Numeric | 11 | \boxtimes | \boxtimes | 0-99999(no dots) |

6.clerk logon report

| Index | Name | Type | Length (Bytes) | Negative | Dots | Notes |
|-------|--------------|-------------|----------------|-------------|-------------|-------------|
| 1 | Description | Char String | 50 | \boxtimes | \boxtimes | Description |
| 3 | Log in time | Char String | 8 | \boxtimes | \boxtimes | HH:MM |
| 4 | Lon out time | Char String | 8 | \boxtimes | \boxtimes | HH:MM |

7. EJ Data

| Index | Name | Туре | Length (Bytes) | Negative | Dots | Notes |
|-------|---------|------|----------------|----------|------|-------|
| 1 | EJ data | byte | 27 | | | |

```
Binary data, each pachage 27 EJ data.
Struct{
  Byte
                   LineType: 0 EJ head data; 1: EJ item data
  struct{
              word
                          EJ_Type;
              DATE
                             date;
                                    YYMMDD
              TIME
                             time:
                                    HHMMSS
                                    /*收据号*/
              long
                         Rcpt_No;
                           ClkNo;
                                      /*收银员*/
              byte
              WORD
                            TblNo;
                                       /*台号*/
                            Cover:
                                       /*人数*/
              byte
                       IsTakeAway; /*是否是外送操作 */
              byte
                         IsClkIntrpt; /*是否是CLERK INTERRUPT 开台*/
              byte
                            TtlAmt;
              long
              WORD
                            RcptLen;
                                       /*存根大小*/
              WORD
                            Reserv;
      }EJ_HEAD; 26 bytes
      Strcut{
              byte
                         ID;
                                         /* Indicate the operation,*/
                                         /* The transaction index number */
              WORD
                         nth;
              long
                                     /* The transaction item price */
                         price;
                                         /* The transaction quantity */
              long
                         Qty;
                                        /* The transaction item total amount */
              long
                         Amt;
              byte
                         TaxNo;
                                        /* The transaction item tax No */
              byte
                         PerIdx;
                                      /* The Percentage idx */
              TRANSFLAG flag;
              char
                       Reserv;
                       BarCode[BAR_BUFF_LEN];
              char
      }EJ_ITEM; 26 bytes
 };
 typedef struct{
       byte IsEC: 1;
       byte IsSerTax:1;
       byte IsEmpSerTax:1; /*当前系统是否在免服务费状态 */
       byte Reserve:5;
 } TRANSFLAG;
```

8. 错误代码

- 1. No response from ECR for 10 seconds.
- 2. The response from ECR is 'NAK + STATUS CODE'.
- 3. The format of the data from ECR is illegal. (If you regard the data-format check as necessary.) Status Code List(00-99)

| Code | Contents |
|------|--|
| 0 | Normal |
| 1 | Password Error |
| 2 | ECR unconventionality |
| 3 | Time Over |
| 4 | Command Error |
| 5 | Data Error |
| 6 | Check Sum Error |
| 7 | PLU total quantity & quantity not blank |
| 8 | Not all the reports data is void |
| 9 | Work mode error |
| 10 | Department total quantity & quantity not blank |
| 11 | Same PLU index |
| 12 | The hard control lock scan not exists |
| 13 | Not in the VAT mode |
| 14 | Not in the Tax mode |
| 15 | PLU Attribute Error |
| 16 | Can't handshake,server is busy now |
| 17 | Can't communicate, server is busy now |
| 18 | PLU is not normal! |
| 19 | PLU is normal! |
| 20 | PLU is not exist! |
| 21 | The sale no end! |
| 22 | It is paying! |
| 23 | The report is clearing! |
| 24 | ECR and PC version is not match! |