

TS248

PC INTERFACE

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1. COMMAND LIST

ECR-PC		
No.		Command
1	Reception system configuration data	1
2	Reception of all PLU Preset Data with stock	2
3	Reception of all PLU Preset Data without stock	3
4	Reception of all PLU stock Data	4
5	Reception of Single PLU Preset Data with stock	5
7	Reception of all Department Preset Data	7
8	Reception of Single Department Preset Data	8
9	Reception of all Clerk Preset Data	9
10	Reception of single Clerk Preset Data	10
11	Reception of all Store header Data	11
12	Reception of all Footer logo Preset Data	12
13	Reception of all system status Preset Data	13
14	Reception of all cooking message Preset Data	14
15	Reception of Single cooking message Preset Data	15
16	Reception of all persentage Preset Data	16
17	Reception of all FCE Preset Data	17
18	Reception of all coupon Preset Data	18
19	Reception of all payment Preset Data	19
20	Reception of all DPLU Preset Data	20
21	Reception of all TAX Preset Data	21
22	Reception of all Menu Preset Data	22
23	Reception of single Menu Preset Data	23
24	Reception of screen layout Preset Data	24
25	Reception of Refund Preset Data	25
26	Reception of port Preset Data	26
27	Reception of KP Preset Data	27
28	Reception of Gift certificate Preset Data	28
29	Reception of RP Preset Data	29
30	Reception of Key descriptor Preset Data	30
31	Reception of Bundle PLU Preset Data	31
32	Reception of single Bundle PLU Preset Data	32
33	Reception of Bundle saving text Preset Data	33
34	Reception of pcash Preset Data	34
35	Reception of Flash report Preset Data	35
36	Reception of Register description Preset Data	36
37	Reception of Service tax Preset Data	37
38	Reception of Supplier Preset Data	38
39	Reception of Weighing PLU preset Data	39
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41	Reception of table group preset Data	41
42	Reception of table parameter preset Data	42
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PC-ECR

No.		Command
1	Overwrite PLU delete data	101
2	Overwrite all PLU Preset Data With stock	102
3	Overwrite all PLU Preset Data without stock	103
4	Overwrite all PLU stock Data	104
5	Overwrite Single PLU Preset Data with stock	105
7	Overwrite all Department Preset Data	107
8	Overwrite Single Department Preset Data	108
9	Overwrite all Clerk Preset Data	109
10	Overwrite Single Clerk Preset Data	110
11	Overwrite all Store header Preset Data	111
12	Overwrite all Footer logo Preset Data	112
13	Overwrite all system status Preset Data	113
14	Overwrite all cooking message Preset Data	114
15	Overwrite Single cooking message Preset Data	115
16	Overwrite all persentage Preset Data	116
17	Overwrite all FCE Preset Data	117
18	Overwrite all coupon Preset Data	118
19	Overwrite all payment Preset Data	119
20	Overwrite all DPLU Preset Data	120
21	Overwrite VAT Preset Data	121
22	Overwrite of all Menu Preset Data	122
23	Overwrite of single Menu Preset Data	123
24	Overwrite of screen layout Preset Data	124
25	Overwrite of refund Preset Data	125
26	Overwrite of port Preset Data	126
27	Overwrite of KP Preset Data	127
28	Overwrite of Gift certificate Preset Data	128
29	Overwrite of RP Preset Data	129
30	Overwrite of key descriptor Preset Data	130
31	Overwrite of Bundle PLU Preset Data	131
32	Overwrite of Single Bundle PLU Preset Data	132
33	Overwrite of Bundle saving Text Preset Data	133
34	Overwrite of pcash Preset Data	134
35	Overwrite of Flash report Preset Data	135
36	Overwrite of Register description Preset Data	136
37	Overwrite of Service tax Preset Data	137
38	Overwrite of Supplier Preset Data	138
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40	Overwrite of dept group Desc preset Data	140
41	Overwrite of table group preset Data	141
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Report&EJ

1	Reception of Report Data(X/Z)(financial)	201
2	Reception of Report Data(X/Z) (Periodic)	202
3	Reception of PLU Report Data(X/Z)(financial)	203
4	Reception of Clerk Report Data(X/Z)	205
5	Reception of PTD Clerk Report Data(X/Z)	206
6	Reception of Hourly Report Data(X/Z)	207
7	Reception of CLERK LOG Report Data(X/Z)	208
8	Reception of X Table Report Data(X/Z)	209
9	Reception of Active Table Report Data(X)	210
10	Reception of EJ Report Data(X)	211
11	Reception of PLU stock Report Data(X)	212
12	Reception of Menu Report Data(X/Z)	213
12	Reception of PTD menu Report Data(X/Z)	214
14	Reception of DAILY menu PLU Data(X)	215
15	Reception of PTD menu PLU Data(X)	216
16	Reception of second daily Z report(X)	217
17	Reception of Bundle Report Data(X/Z)	218
18	Reception of PTD Bundle Data(X/Z)	219
19	Reception of Daily Dept Group Data(X)	220
20	Reception of PTD Dept Group Data(X)	221

Report(IRC-HOST)

1	Reception of Report Data(X/Z)(financial)	251
2	Reception of Report Data(X/Z) (Periodic)	252
3	Reception of PLU Report Data(X/Z)(financial)	253
4	Reception of Clerk Report Data(X/Z)	255
5	Reception of PTD Clerk Report Data(X/Z)	256
6	Reception of Hourly Report Data(X/Z)	257
7	Reception of Table Report Data(X/Z)	259
8	Reception of Menu Report Data(X)	263
9	Reception of PTD menu Report Data(X)	264
10	Reception of DAILY menu PLU Data(X)	265
11	Reception of PTD menu PLU Data(X)	266
12	Reception of Bundle Report Data(X/Z)	268
12	Reception of PTD Bundle Data(X/Z)	269
14	Reception of Daily Dept Group Data(X)	270
15	Reception of PTD Dept Group Data(X)	271

Clear Report Command

1	Clear Daily Report Data(financial)(Z)	301
2	Clear PTD Report Data (Periodic)(Z)	302
3	Clear PLU Report Data(financial)(Z)	303
4	Clear Clerk Report Data(financial)(Z)	305
5	Clear Clerk Report Data(Periodic)(Z)	306
6	Clear Hourly Report Data(Z)	307
7	Clear CLERK LOG Report Data(Z)	308
8	Clear Table Report Data(Z)	309
9	Clear MENU Report Data(financial)(Z)	310
10	Clear MENU Report Data(Periodic)(Z)	311
11	Clear Bundle Report Data(financial)(Z)	313
12	Clear Bundle Report Data (Periodic)(Z)	314

Clear Report Command(IRC-HOST)

1	Clear Daily Report Data(financial)(Z)	351
2	Clear PTD Report Data (Periodic)(Z)	352
3	Clear PLU Report Data(financial)(Z)	353
4	Clear Clerk Report Data(financial)(Z)	355
5	Clear Clerk Report Data(Periodic)(Z)	356
6	Clear Hourly Report Data(Z)	357
7	Clear Table Report Data(Z)	359
8	Clear MENU Report Data(financial)(Z)	360
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10	Clear Bundle Report Data(financial)(Z)	363
11	Clear Bundle Report Data (Periodic)(Z)	364

2. COMMUNICATION CONFIGURATION

- a) Data format ASCII(except the PLU preset data)
b) Interface type 1>USB interface
- Baud Rate : 9600bps
Character Length : 8 bit

Parity	: None
Stop Bit	: 1 stop bit

2>Ethernet

3. COMMUNICATION PROCEDURE

As a response to a command from PC, ECR sends " ACK + 00" for received command.
 Command and response do not include BCC (Block Check Code) nor CRC data.
 The Frame data includes a CS(Check Sum) data area before 'CR'. And the CS area is separated by ',', which is also calculated in the CS. The max CS area is 2 bytes.

Eg. CS = 0x1c = 28, then store as 0x32, 0x38.

If CS >= 100, just get the last 2 digit in decimalist.

Eg. CS = 0xCB = 203, then store as 0x30, 0x33 or just 0x33.

If the CS is error, the whole frame data will be illegal.

Communication-line error should be detected by using time-out control and data illegal control.
 Send " NAK + STATUS CODE " for error.

Time-out period are shown on communication sequences.

Time-out period for data interval (1 byte bases) of a frame should be 20 ms or longer.

If communication-line error, there will be max 3 times to retry.

3.1 PC reception data from ECR

1) PC Reception all parameters

PC SIDE	DIRECTION	ECR SIDE	TIME-OUT PERIOD
Command package	→		10 sec. (Max)
	←	ACK	10 sec. (Max)
ACK	←	Data area package	10 sec. (Max)
	→		10 sec. (Max)
ACK	←	Data area package	10 sec. (Max)
	→		10 sec. (Max)

In Case of data send/receive error, need resend it. (maximum 3 times for retry)

Error status package	←	Data area package	10 sec. (Max)
	←	Data area package (Resend)	10 sec. (Max)
ACK	→	Repeat	
	←	Data area package	10 sec. (Max)
ACK	→		
	←	"EOF"	10 sec. (Max)

2) PC Reception single parameter

PC SIDE	DIRECTION	ECR SIDE	TIME-OUT PERIOD
Command package	→		10 sec. (Max)
	←	ACK	
Parameter index package	→		10 sec. (Max)
	←	Data area package	
ACK	→		10 sec. (Max)
	←	"EOF"	10 sec. (Max)

3) field analysis

1.Command package

STX +CMD + ID + password+ PCCPV + CS +ETX

Name	含义	数值
STX	Start Of Text	0x02
CMD	Command	命令字 (ASCII)
ID	访问收款机的ID号码	ECR测有三组ID和密码
Password	访问收款机的密码	
PCCPV	版本控制信息	ECR上有与其同步的版本号
ETX	End Of Text	0x03

2. Data area package

PRESET DATA + CS + “CR”

Name	含义	数值
PRESET DATA	参数信息	根据数据定义获取参数结构
CS	校验和	---
“CR”	数据包结束标志	0X0D

3.Error status package

NAK+STATUS CODE

Name	含义	数值
NAK	返回错误信息标志	0x15
STATUS CODE	错误代码	查看错误代码表

4. Parameter index package

Parameter index + CS + “CR”

Name	含义	数值
Parameter index	参数下标值	不用参数对应的下标不同
CS	校验和	---
“CR”	数据包结束标志	0X0D

5. other

Name		含义	数值
ACK	应答命令字		0x06

CS calculation:

For example:

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

STX :0X02

CMD : 1

ID : A

Password : 1234

PCCPV : 1

Send data:

STX 31 2C 22 41 22 2C 31 32 33 34 2C 31 2C 39 39 EXT

$CS = 0x31+0x2C+0x22+0x41+0x22+0x2C+0x31+0x32+0x33+0x34+0x2C+0x31+0x2C = 0x61 = 99$

Note: each field is separated by ',', and CS is the sum from STX(exclude STX) to the separated sign before the CS(include the separated sign).

3.2. Overwrite Preset Data of ECR

1) Overwrite all Preset Data of ECR

PC SIDE	DIRECTION	ECR SIDE	TIME-OUT PERIOD
Command package	→		10 sec. (Max)
	←	ACK	
Data area package	→		10 sec. (Max)
	←	ACK	
Data area package	→		10 sec. (Max)
	←	ACK	

In Case of data send/receive error, need resend it. (maximum 3 times for retry)

Data area package(Resend)	→		10 sec. (Max)
	←	ACK	
Data area package	→		10 sec. (Max)
	←	ACK	
"EOF"	→		10 sec. (Max)

*1 : When illegal data exists in received Frame data, or time-out to receive, ECR returns "NAK + STATUS CODE" and retry again. The max retry times is 3. If more than 3 times, terminate this command.

2) Overwrite single Preset Data of ECR

PC SIDE	DIRECTION	ECR SIDE	TIME-OUT PERIOD
Command package	→ ←	ACK	10 sec. (Max)
Data area package	→ ←	ACK	10 sec. (Max)
"EOF"	→		10 sec. (Max)

4. COMMUNICATION SEQUENCES

4.1 ECR->PC

1) Reception of all PLU Preset Data

PC SIDE	DIRECTION	ECR SIDE	TIME-OUT PERIOD
STX + "2" + ID + password + PCCPV + CS + ETX	-->		10 sec. (Max)
	<--	ACK	10 sec. (Max)
ACK	<-- -->	PLU PRESET DATA + CS + "CR"	10 sec. (Max) 10 sec. (Max)
ACK	<-- -->	PLU PRESET DATA + CS + "CR"	10 sec. (Max) 10 sec. (Max)

In Case of data send/receive error, need resend it. (maximum 3 times for retry)

NAK+STATUS CODE*1	<-- -->	PLU PRESET DATA + CS + "CR"	10 sec. (Max)
ACK	<-- -->	PLU PRESET DATA + CS + "CR" (Resend)	
		Repeat	
ACK	<-- -->	PLU PRESET DATA + CS + "CR"	10 sec. (Max) 10 sec. (Max)
	<--	"EOF"	

*1. If PC receives the Frame data time-Out, or check CS error, PC will send 'NAK + STATUS CODE' out an

d prepare to re-receive the Frame data again. If retrying to 3 times, terminate the Command.

2) Reception of single PLU Preset Data

PC SIDE	DIRECTION	ECR SIDE	TIME-OUT PERIOD
STX +"5"+ ID + password+ PCCPV + CS +ETX	-->		10 sec. (Max)
	<--	ACK	
PLU barcode + CS + "CR"	-->		10 sec. (Max)
	<--	PLU PRESET DATA + CS + "CR"	
ACK	-->		10 sec. (Max)
	<--	"EOF"	10 sec. (Max)

Parameter index : PLU barcode, if the ECR hasn't this PLU, it will send error code to the PC.

- 3) Reception of all Department Preset Data – the same with all PLU reception
- 4) Reception of single Department Preset Data
Parameter index : Dept No., start from 1,Max 200
- 5) Reception of all Clerk Preset Data– the same with all PLU reception
- 6) Reception of single Clerk Preset Data
Parameter index : Clerk No., start from 1,Max 50
- 7) Reception of all Store header Data – the same with all PLU reception
- 8) Reception of all Footer logo Preset Data – the same with all PLU reception
- 9) Reception of all system status Preset Data – the same with all PLU reception
- 10) Reception of all Cooking Message Preset Data – the same with all PLU reception
- 11) Reception of Single cooking message Preset Data – the same with all PLU reception
Parameter index : C.M. No., start from 1,Max 200
- 12) Reception of all percentage Preset Data – the same with all PLU reception
- 13) Reception of all FCE Preset Data – the same with all PLU reception
- 14) Reception of all coupon Preset Data – the same with all PLU reception
- 15) Reception of all payment Preset Data – the same with all PLU reception
- 16) Reception of all DPLU Preset Data – the same with all PLU reception
- 17) Reception of all VAT Preset Data – the same with all PLU reception
- 18) Reception of all Menu Preset Data – the same with all PLU reception
- 19) Reception of single Menu Preset Data
Parameter index : Menu No., start from 1,Max 25
- 20) Reception of Screen layout Data
- 21) Reception of all Refund Preset Data – the same with all PLU reception
- 22) Reception of port Preset Data – the same with all PLU reception
- 23) Reception of KP Preset Data – the same with all PLU reception
- 24) Reception of Gift certificate Preset Data – the same with all PLU reception
- 25) Reception of RP Preset Data – the same with all PLU reception
- 26) Reception of key descriptor Data – the same with all PLU reception
- 27) Reception of Bundle PLU Data – the same with all PLU reception
- 28) Reception of Bundle PLU Data
Parameter index : Bundle No., start from 1,Max 80
- 29) Reception of Bundle saving text Data – the same with all PLU reception

4.2 PC->ECR

1) Overwrite all PLU Preset Data of ECR

PC SIDE	DIRECTION	ECR SIDE	TIME-OUT PERIOD
STX +"102"+ ID + password+ PCCPV + CS +ETX	-->		10 sec. (Max)
	<--	ACK	10 sec. (Max)
PLU PRESET DATA + CS*2 + "CR"	-->		10 sec. (Max)
	<--	ACK *1	10 sec. (Max)
PLU PRESET DATA + CS + "CR"	-->		10 sec. (Max)
	<--	ACK *1	
		Repeat*2	
PLU PRESET DATA + CS + "CR"	-->		10 sec. (Max)
	<--	ACK *1	10 sec. (Max)
"EOF"	-->		

*1 : When illegal data exists in received Frame data, or time-out to receive, ECR returns "NAK" and retry again. The max retry times is 3. If more than 3 times, terminate this command.

*2 : When the PLU in ECR is full, ECR returns "NAK" and terminate this command.
("EOF" is not needed)

2) Overwrite single PLU Preset Data of ECR

PC SIDE	DIRECTION	ECR SIDE	TIME-OUT PERIOD
STX +"105"+ ID + password+ PCCPV + CS +ETX	-->		10 sec. (Max)
	<--	ACK	10 sec. (Max)
PLU PRESET DATA + CS*2 + "CR"	-->		10 sec. (Max)
	<--	ACK *1	
"EOF"	-->		

*1 : When illegal data exists in received Frame data, or time-out to receive, ECR returns "NAK" and retry again. The max retry times is 3. If more than 3 times, terminate this command.

*2 : When the PLU in ECR is full, ECR returns "NAK" and terminate this command.
("EOF" is not needed)

- 3) Overwrite all Department Preset Data of ECR—the same with Overwrite all PLU
- 4) Overwrite Single Department Preset Data—the same with Overwrite single PLU
- 5) Overwrite all Clerk Preset Data—the same with Overwrite all PLU
- 6) Overwrite Single Clerk Preset Data—the same with Overwrite single PLU
- 7) Overwrite all Store header Preset Data of ECR—the same with Overwrite all PLU
- 8) Overwrite all Footer logo Preset Data of ECR—the same with Overwrite all PLU
- 9) Overwrite all system status Preset Data —the same with Overwrite all PLU
- 10) Overwrite all cooking message Preset Data—the same with Overwrite all PLU
- 11) Overwrite Single cooking message Preset Data—the same with Overwrite single PLU
- 12) Overwrite all percentage Preset Data—the same with Overwrite all PLU
- 13) Overwrite all FCE Preset Data —the same with Overwrite all PLU
- 14) Overwrite all coupon Preset Data—the same with Overwrite all PLU
- 15) Overwrite all payment Preset Data—the same with Overwrite all PLU
- 16) Overwrite all DPLU Preset Data—the same with Overwrite all PLU
- 17) Overwrite VAT Preset Data—the same with Overwrite all PLU
- 18) Overwrite Menu Preset Data—the same with Overwrite all PLU
- 19) Overwrite Single Menu Preset Data—the same with Overwrite single PLU
- 20) Overwrite Screen Layout Preset Data—the same with Overwrite all PLU
- 21) Overwrite all refund Preset Data—the same with Overwrite all PLU
- 22) Overwrite Port Preset Data—the same with Overwrite all PLU
- 23) Overwrite KP Preset Data—the same with Overwrite all PLU
- 24) Overwrite Gift certificate Preset Data—the same with Overwrite all PLU
- 25) Overwrite RP Preset Data—the same with Overwrite all PLU
- 26) Overwrite key descriptor Preset Data—the same with Overwrite all PLU
- 27) Overwrite Bundle PLU Preset Data—the same with Overwrite all PLU
- 28) Overwrite Single Bundle PLU Preset Data—the same with Overwrite single PLU
- 29) Overwrite Bundle saving text Preset Data—the same with Overwrite all PLU

4.3 reception of Report

-- the procedure is the same as PC Reception all parameters.

4.4 Clear Report

PC SIDE	DIRECTION	ECR SIDE	TIME-OUT PERIOD
Command package	→		10 sec. (Max)
	←	ACK	
	←	"EOF"	10 sec. (Max)

5. DATA SPECIFICATION

Control code described at "4.Communication Sequences" are specified as below.
(In accordance with ASCII code)

STX	02H,	ETX	03H
ACK	06H,	CR	0DH
NAK	15H,	EOF	1AH

Data frame is consisted of ASCII code. Each data is separated by [,] character and ASCII code, 2CH, is used.

When data frame is numeric data, ASCII code 30H-39H and 2DH for [-], negative sign, 0x2E for [.] , decimal dot, can be used.

When data frame is character data, it must be surrounded by quotation mark ["]
(ASCII code=22H).

ID: Operator Identifier Character data (12 bytes max.)
 Password: Operator password opposite ID Numeric data(6 bytes max,1-999999)
 PCCPV: PC Communication Protocol Version Numeric data(2 bytes max ,1-99)
 Original 1-Ver G, when protocol upgrade increase the number

Example:

CMD: Reception of PLU Stock Report Data 219

ID: 001

Password: 1234

PCCPV:1

Data 219, "001", 1234, 1

In hexadecimal code 323139 2C 223122 2C 31323334 2C 31

1) System configuration data

Index	Name	Type	Length (Bytes)	Notes	
1	Work mode	Numeric	3	0x55: retail 0xAA: hospitality	in retail mode, TABLE, 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 be the same number
5	Split Number	Numeric	1	0~5	
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	Type	Length (Bytes)	Negative	Dots	Notes
1	Barcode [7]	byte	7	<input type="checkbox"/>	<input type="checkbox"/>	
2	Safety stock	long	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	系统小数点
3	Stock	long	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999.999(fixed 3 dots)

Note: data format is Binary.

For all PLU stock, it will have 50 PLU each package.

3) PLU Preset data(ALL PLU communication)

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Barcode[7]	byte	7	<input checked="" type="checkbox"/>		
2	Price1	long	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	系统小数点
3	Price2	long	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	系统小数点
4**	Price3	long	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	系统小数点
5	Deptartment No.	word	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~最大部门号
6	Name[18]	Char string	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
7	Name2[18]	Char string	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
8	a) PRICE FORMAT b) menu ** c) stock active d) IsCondiment** e) Exempt Service Tax** f) FS Tenderable	byte	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	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(def)/1: Yes f: FS Tenderable 0:No(def)/1: Yes
9**	Number of modifiers	byte	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~5
10**	Modifiers member[5] { bool IsUsed; byte Desc[18+1]; long qty; long price; } 28 bytes	-----	28X5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11**	Number of condiments	byte	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~12
12**	Selection No. of condiments	byte	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~12,这个字段的值必须小于等于字段11的值
13**	Condiments member[12] { Word PluIdx; word Qty; }4bytes	----	4X12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Codiments从属性是 IsCondiment的PLU中选择.
14**	CmNum	byte	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~6
15**	CmIdx[5][6]	byte	1X6X5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~最大口味数, 0表示没有, 下标从1开始
16	Safety stock	long	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	固定三个小数点
17	Stock	long	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	固定三个小数点

注意：当前PLU最大可达到30000条，零售模式带**在界面上不显示

由于当前PLU结构很大，PLU采用二进制传送格式.需要将当前一包数据的通讯长度由256bytes 扩展到1K.

在全部PLU发送和接收时，每包可有三个PLU。

当PLU全部发送到收款机时，请先发送PLU属性为condiments 的条码

4) PLU delete data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Barcode [7]	byte	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Note: data format is Binary.

5) PLU Preset data(Single PLU communication)

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Barcode	Numeric string	13	<input checked="" type="checkbox"/>		
2	Price	Numeric	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-999999 系统小数点
3	Price2	Numeric	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-999999系统小数点
4	Price3	Numeric	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-999999系统小数点
5	Deptarment No.	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~最大部门号
6	Name	Char string	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
7	Name2	Char string	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
8	a) PRICE FORMAT b) menu ** c) stock active d) IsCondiment** e) Exempt Service Tax** f) FS Tenderable	Numeric	6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	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
9	Number of modifiers	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~5
10	PLU Modifiers 1 Price	Numeric	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-999999 系统小数点
11	PLU Modifiers 1 quantity	Numeric	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999.999(fixed 3 dots)
12	PLU Modifiers 1 Name	Char string	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
13	PLU Modifiers 2 Price	Numeric	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-999999 系统小数点
14	PLU Modifiers 2 quantity	Numeric	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999.999(fixed 3 dots)
15	PLU Modifiers 2 Name	Char string	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

22	PLU Modifiers 5 Price	Numeric	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-999999 系统小数点
23	PLU Modifiers 5 quantity	Numeric	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999.999(fixed 3 dots)
24	PLU Modifiers 5 Name	Char string	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
25	Number of condiments	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~12
26	Selection No. of condiments	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~12,这个字段的值必须小于 等于字段13的值
27	Condiments Member1 Barcode	Numeric string	13	<input checked="" type="checkbox"/>		
28	Condiments Member1 quantity	Numeric	1			1-9
29	Condiments Member2 Barcode	Numeric string	13	<input checked="" type="checkbox"/>		
30	Condiments Member2 quantity	Numeric	1			1-9
..					
39	Condiments Member12 Barcode	Numeric string	13	<input checked="" type="checkbox"/>		
40	Condiments Member2 quantity		1			1-9
41	CmNum	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~6
42	CmIdx1	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-最大口味
	
71	CmIdx30	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-最大口味
72	Safety stock	Numeric	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-99999.999 固定三个小数点
73	Stock	Numeric	9	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-99999.999 固定三个小数点

单条PLU通讯采用ASCII格式，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

6) Dept. Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Dept No.	Numeric	3	<input type="checkbox"/>	<input type="checkbox"/>	1~200
2	Price	Numeric	8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	系统小数点
3	a):mode b):type c):halo d):age ef):Tax g): FS Tenderable	Numeric	6	<input type="checkbox"/>	<input type="checkbox"/>	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:NO(def)
4	Name	Char string	18	<input type="checkbox"/>	<input type="checkbox"/>	
5	a:group bc:KP de:KP2 f:PRICE FORMAT g:Kp format h:Tax Type	Numeric	8	<input type="checkbox"/>	<input type="checkbox"/>	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 flag 'select vat type for dept' is YES, then this flag can modify, or it is 1:variable for default.

For example:

Dept No.	1
Price	1.23
mode	0:Standard
type	0:Normal
halo	7
age	0:None
Tax	00
FS Tenderable	0
Name	"DEPT01"
Group	0
KP	01
KP2	00
PRICE FORMAT	0 :OPEN
Kp format	1: Multiple items
Tax Type	1:Variable

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

Hex : 31 2c 31 2e 32 33 2c 37 30 30 30 30 2c 22 44 45 50 54 30 31 22 2c 31 30 30 30 31 31

Note: we will get the data from the first un-zero.

If the data as following:

Group	0
KP	00

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

7) Clerk Preset Data

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

8) Store header Preset Data

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

9) Footer logo Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Footer logo number	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~5
2	Footer logo font	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1:normal 2:double width 3:double height 4:Quadruple
3	Footer logo message	Char string	42	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

10) system status Preset Data

Status1	ABCDEFGH
A	Print date on receipt YES: 1(def) / NO: 0
B	Print time on receipt YES: 1(def) / NO: 0
C	Print clerk on receipt YES: 1(def) / NO: 0
D	Print Header on receipt YES: 1(def) / NO: 0
E	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
H	Print Machine No. on receipt YES: 1(def) / NO: 0

Status2	ABCDEFGH
A	Print Receipt No. on receipt YES: 1(def) / NO: 0
B	Print Tax amount on receipt YES: 1(def) / NO: 0
C	Print Tax total on receipt YES: 1(def) / NO: 0
D	Print item Tax code on receipt YES: 1(def) / NO: 0
E	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
H	Print Dept No. on receipt YES: 1 / NO: 0(def)

Status3	ABCDEFGH
A	Print Local Currency symbol YES: 1 / NO: 0(def)
B	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
E	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)
H	Print average amount on receipt YES: 1(def) / NO: 0

Status4	ABCDEFGH
A	Print #/NS information YES: 1(def) / NO: 0
B	(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

H	Print bill after transaction void	YES: 1(def) / NO: 0
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Status5	ABCDEFGH	
A	Print bill after transfer table/combine table	YES: 1 / NO: 0(def)
B	Print CM on receipt	YES: 1 / NO: 0(def)
C	Position of receipt# print	0:Foot /1:Head (def)
D	Position of logo print:	0:Foot /1:Head (def)
E	Print items when close table	0:No(def)/1:All/2:Last List
F	Item descriptor at RP	0: English(def) 1: Chinese 2: Both
GH	reserve	0

Status6	ABCDEFGH	
A	Inventory function active	YES: 1 / NO: 0(def)
B	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)
E	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)
H	IButton Logon Active	YES: 1 / NO: 0(def)

Status7	ABCDEFGH	
A	Currency Symbol choice	YES: 1 / NO: 0(def)
B	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
E	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)
H	Send data to CCTV	YES: 1 / NO: 0(def)

Status8	ABCDEFGH	
A	Not Found active	YES: 1 / NO: 0(def)
B	Not Found Prompt choice	YES: 1(def) / NO: 0
C	Consolidate the items on the KP	YES: 1 / NO: 0(def)
D	Cover function active	YES: 1(def) / NO: 0
E	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
H	Mark item more than 1 on kp	YES: 1 / NO: 0(def)

Status9	ABCDEFGH	
A	Clerk Pass code digits	0:3digits(def) 1:4digits
B	Rounding method	0:4/5(def)/1: up /2:down 3:special
C	Gift Voucher change	0:No return

		1:Local currency(def) 2:Payment Media
DE	Line Feed Count	06(max -15)
F	VAT rate for Take-Away	0:Vat1/1:Vat2/2:Vat3/ 3:Vat4/4:Dept Vat(def)
G	VAT rate for In-House	0:Vat1/1:Vat2/2:Vat3/ 3:Vat4/4:Dept Vat(def)
H	VAT rate for Out-Of-House	0:Vat1/1:Vat2/2:Vat3/ 3:Vat4/4:Dept Vat(def)

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

Status11	ABCDEFGH	
A	Special RM active	YES: 1 / NO: 0(def)
B	%&refund with Service tax	YES: 1(def) / NO: 0
C	Report export device	0: UDisk(def) 1: SDCard
D	Duplicate receipt counter	0-9
E	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
B	VD/TSVD data add to report	YES: 1(def) / NO: 0
C	Clerk Rpt detail analysis	YES: 1 / NO: 0(def)
D	Allow Z Rpt When open Table	YES: 1 / NO: 0(def)
E	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
H	Print VAT No. on reports	YES: 1(def) / NO: 0

Status13	ABCDEFGH	
A	Cover data add to report	YES: 1(def) / NO: 0
B	Zero item skip for report	YES: 1(def) / NO: 0
C	Print the zero inventory	YES: 1(def) / NO: 0
D	Print the Z counter	YES: 1(def) / NO: 0
E	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 1: Quantity(def)
H	RESERV	0

Status14	ABCDEFGH	
AB	Payment information display time	10(max 60s)
CD	Change info display time	10(max 60s)
EFG	Table color change time	255(max 255M)
H	Take out print tickets	2 (max 3)

Status15	ABCDE	
ABC	Maximum tips amount	0 (max 500)
DE	Logo select	0-11

Status16	ABCDEF	
ABCDEF	Training mode pass code	0-999999(123456)

Status17	ABCDEFGH	
ABCDEFGH	HALO	0- 999999.99

Status18	ABCDEFGH	
ABCDEFGH	Total in drawer limit	0- 999999.99

Status19	ABCDEFGH	
ABCD	Daily Z counter preset	0000 -9999
EFGH	Periodic Z counter preset	0000 -9999

Status20	ABCDEFGH	
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	HHMM
EFGH	happy hour Price2 end time	HHMM

Status23	ABCDEFGH	
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ABCD	happy hour Price3 start time	HHMM
EFGH	happy hour Price3 end time	HHMM

Status24	ABCDEFGH(happy hour days)	
A	Sunday	YES: 1 / NO: 0(def)
B	Monday	YES: 1 / NO: 0(def)
C	Tuesday	YES: 1 / NO: 0(def)
D	Wednesday	YES: 1 / NO: 0(def)
E	Thursday	YES: 1 / NO: 0(def)
F	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 Support; 1: Tender; 2: Open
B	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)

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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)

11) Weighing PLU

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

12) Cooking Message Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	C.M. number	Numeric	3	<input type="checkbox"/>	<input type="checkbox"/>	1~200
2	price	Numeric	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~999999
3	Cooking Message	Char string	24	<input type="checkbox"/>	<input type="checkbox"/>	

13) Percentage Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	percentage number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	1~8
2	Rate	Numeric	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~99.999 (fixed 3 dots)
3	a: Attribute b: +/- Selection	Numeric	2	<input type="checkbox"/>	<input type="checkbox"/>	a: Attribute 0:After Item&Subttl/ 1:After Subttl/2:After Item/ 3:Locked b: +/- Selection 0:+% (def)/1:-%
4	Name	Char string	12	<input type="checkbox"/>	<input type="checkbox"/>	

14) Refund

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Refund number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	1~8
2	price	Numeric	8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999999(system dots)
3	HALO	Numeric	8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999999(system dots)
4	Name	Char string	12	<input type="checkbox"/>	<input type="checkbox"/>	

15) Coupon program Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	price	Numeric	8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999999(system dots)
2	HALO	Numeric	8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999999(system dots)

16) FCE program Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	FCE number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	1~4
2	a: Decimal b: symbol	Numeric	2	<input type="checkbox"/>	<input type="checkbox"/>	a: Decimal 0-3 b: symbol 1-7
3	Local	Numeric	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0-99999(system dots)
4	FC	Numeric	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0-99999(fc dots)
5	Name	Char string	12	<input type="checkbox"/>	<input type="checkbox"/>	

17) Payment Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Payment number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	1~10
2	Change return	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0:No Return 1:Local currency 2:Payment Media
3	Duplicate number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0-9
4	Changes to tips	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0:No; 1: Yes
5	Type	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0:Noraml 1:Credit 2: Debit 3:EBT
6	Name	Char string	18	<input type="checkbox"/>	<input type="checkbox"/>	

18) PCASH preset data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Pcash number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	1~10
2	Price	Numeric	8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999999(system dots)
3	Type	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	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	<input type="checkbox"/>	<input type="checkbox"/>	

19) Service Tax

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Service Tax number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	1
2	Name	Char string	12	<input type="checkbox"/>	<input type="checkbox"/>	
3	type	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0: fix 1:percentage
4	rate	Numeric	5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0: fix 0-99999(system dots) 1:percentage:0-99.999
5	Start time#1	Numeric	4	<input type="checkbox"/>	<input type="checkbox"/>	HHMM
6	End time#1	Numeric	4	<input type="checkbox"/>	<input type="checkbox"/>	HHMM
7	Start time#2	Numeric	4	<input type="checkbox"/>	<input type="checkbox"/>	HHMM
8	End time#2	Numeric	4	<input type="checkbox"/>	<input type="checkbox"/>	HHMM
9	Sunday: Monday: Tuesday: Wednesday: Thursday: Friday: Saturday:	Numeric	7	<input type="checkbox"/>	<input type="checkbox"/>	0:No; 1 : yes

20) TAX Preset Data

VAT:

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	VAT number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	1~4
2	RATE	Numeric	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~99.999%

GST-PTS:

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	TAX number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	1~4
2	GST_RATE	Numeric	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~99.999%
3	GST_LIMIT	Numeric	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~999999
4	PST1_RATE	Numeric	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~99.999%
5	PST1_LIMIT	Numeric	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~999999
6	PST2_RATE	Numeric	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~99.999%
7	PST2_LIMIT	Numeric	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~999999(system dots)
8	PST3_RATE	Numeric	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~99.999%
9	PST3_LIMIT	Numeric	7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0~999999
10	TAX limit	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0: non gst , 1:Gst
11	No tax-on-tax	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0: no tax-on-tax 1:tax-on-tax 2:tax-on-tax-on-tax

TAX:

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	TAX number	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~4
2	type	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0: straight 1: tax table
3	ircnt	Numeric	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~63
4	rgcnt	Numeric	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~63
5	Breaks[1]	Numeric	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999(system dots)
.....	.....	Numeric	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999(system dots)
67	Breaks[63]	Numeric	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999(system dots)
68	Tax value[1]	Numeric	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999(system dots)
.....	.....	Numeric	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999(system dots)
130	Tax value[63]	Numeric	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999(system dots)

21) Menu Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Menu number	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~25
2	Price	Numeric	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-999999(system dots)
3	Mode	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0:fixed 1:selectable
4	Vat	Numeric	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-4/0-15
5	child menu desc1	Char string	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
6	child menu desc2	Char string	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
.....	
16	child menu desc12	Char string	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
17	Plu filed	Numeric string		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	mode: fixed max is 13*24 mode: selectabe max is 13*12*18
..	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
..	.....	Numeric string	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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

Note:

If mode is fixed,menu PLU max is 48. 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 number is 10)

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. When 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:	1,2,3,4,5
Child description :	None
Data transmitted:	Package 1: 1,0,0,2,"Menu 1",1,,,,,,,,,
	Package 2: 1,1,0,1,2,3,4,5,,,,,,,,,,,,,
	Package 3: 1,2,0,,,,,,,,,,,,,
	Package 4: 1,3,0,,,,,,,,,,,,,

(2)when mode is selectable

Number:	1
Description:	"Menu 1"
Price	1
Mode	selectable
Child menu 1:	description:"Selection 1"
	PLU: 1,2,3,4,5
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 : 3,4,5,6,7,8
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:	1,1,1,1,2,3,4,5,,,,,,,,,,,,,
Package 3:	1,2,1,,,,,,,,,,,,,
Package 4:	1,3,1,,,,,,,,,,,,,
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: 1,10,1,3,4,5,6,7,8,,,,,,,,,,,,,
 Package 12: 1,11,1,,,,,,,,,,,,,,,,,
 Package 13: 1,12,1,,,,,,,,,,,,,,,,,

22) Port Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Port No.	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~5
2	Device Type	Numeric	8	<input checked="" type="checkbox"/>		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	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0: 4800 1: 9600 2: 19200 3: 38400 4: 57600 5: 115200

23) KP preset data

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

24) Gift Certificate

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Gift No.	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~500
2	Amount	Numeric	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-9999999(system dots)
3	Code	Character string	7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
4	Status	Numeric	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	a) Useflag (1byte,0:No/1:Yes) b) Active (1byte,0:No/1:Yes)
5	Valid until	Numeric	8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	YYYYMMDD

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

25) RP preset data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	RP type	Numeric	1	<input checked="" type="checkbox"/>		0: TM-88III;1 : TM-U220; 2:58mm printer;3:80 mm printer

26) Key descriptor

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Key code	Numeric	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2	Description	Char String	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

按键列表:

Key descriptor setting					
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	PO	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	9X
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			

27) Bundle PLU

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Bundle PLU number	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	1~80
2	Description	Char string	18	<input type="checkbox"/>	<input type="checkbox"/>	
3	type	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0-4
4	condition	Numeric	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	0: amount /1:qty
5	qty/amt	Numeric	8	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Qty:99 Amount:9999999
6	discount	Numeric	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	(qty/amt/rate,99/99999/99.99 9
7	SamePluFlag	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0~1,1:some of Free PLU i s same as PLUs
8	Active Numeric	Numeric	1	<input type="checkbox"/>	<input type="checkbox"/>	0~1,1:All the parameter are setting
9	Free_PLU(1)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
10	Free_PLU(2)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
11	Free_PLU(3)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
12	Membet PLUs (1)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
13	Membet PLUs (2)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
14	Membet PLUs (3)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
15	Membet PLUs (4)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
16	Membet PLUs (5)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
1217	Membet PLUs (6)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
18	Membet PLUs (7)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
19	Membet PLUs (8)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
20	Membet PLUs (9)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
21	Membet PLUs (10)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
22	Membet PLUs (11)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	
23	Membet PLUs (12)	Numeric string	13	<input type="checkbox"/>	<input type="checkbox"/>	

28) Bundle saving text

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Description	Char String	24	<input type="checkbox"/>	<input type="checkbox"/>	

29) Flash report

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Flash report No.	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1--5
2	Description	Char String	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Report1	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
4	Report2	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
5	Report3	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Report4	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
7	Report5	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
8	Report6	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
9	Report7	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
10	Report8	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
11	Report9	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
12	Report10	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

30) Register Descriptor

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	String number	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2	Description	Char String	24	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

31) Supplier preset data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Supplier number	Numeric	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~20
2	Supplier Name	Char string	30	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

32) dept group Desc

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Dept Group number	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~9
2	Dept Group Desc	Char string	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

33) Table Group

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Table Group number	Numeric	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~10
2	Table Group Name	Char string	18	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Table Group Member01	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~100
4	Table Group Member02	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~100
...
...
21	Table Group Member19	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~100
22	Table Group Member20	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~100

34) Table Parameters

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Table number	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~100
2	Table Desc	Char string	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Table key font color	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~255
4	Table key fill color	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~255
5	Price Level	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0: None(def) 1:price1 2:price2 3:price3
6	KP with red	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0:No(Def) 1:Yes
7	Exempt Service Tax	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0:No(Def) 1:Yes

35) Floor Plan Layout

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Floor Plan Layout number	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~3,最多三层FLOOR PLAN布局
2	Floor plan table number	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~100
3	First Key code	Numeric	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	901~1000, 0
4	First Key font color	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~255
5	First Key fill color	Numeric	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0~255
6	First Key size	Numeric	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	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

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.

36) Screen Layout preset data

37) DPLU Preset Data

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	DPLU number	Numeric	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1~1000
2	Plu code	Char string	13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

这个和键盘布局通讯是绑定在一起的.没有单独的设置DPLU的页面.

当键盘上定义了PLU时, 需要将此PLU放到一条空闲的DPLU上.

Report Data

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

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Description	Char String	50	<input type="checkbox"/>	<input type="checkbox"/>	
2	amount	Numeric	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Quantity&Couner	Numeric	11			Quantity :11 bytes max, C ontains Negative sign and decimal dot. Counter : 5 bytes max, d onot contain Negative sign or decimal dot.

2. PLU report

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	PLU number	Numeric	13	<input type="checkbox"/>	<input type="checkbox"/>	
3	amount	Numeric	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System dots
4	Quantity	Numeric	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fixed three dots

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

3.Dept report

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Dept number	Numeric	3	<input type="checkbox"/>	<input type="checkbox"/>	1-200
3	amount	Numeric	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System dots
4	Quantity	Numeric	11	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Fixed three dots

4.clerk report

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	clerk number	Numeric	3	<input type="checkbox"/>	<input type="checkbox"/>	1-50
3	amount	Numeric	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System dots
4	counter	Numeric	11	<input type="checkbox"/>	<input type="checkbox"/>	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	Type	Length (Bytes)	Negative	Dots	Notes
1	Description	Char String	50	<input type="checkbox"/>	<input type="checkbox"/>	Description
3	amount	Numeric	12	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	System dots
4	counter	Numeric	11	<input type="checkbox"/>	<input type="checkbox"/>	0-99999(no dots)

6.clerk logon report

Index	Name	Type	Length (Bytes)	Negative	Dots	Notes
1	Description	Char String	50	<input type="checkbox"/>	<input type="checkbox"/>	Description
3	Log in time	Char String	8	<input type="checkbox"/>	<input type="checkbox"/>	HH:MM
4	Lon out time	Char String	8	<input type="checkbox"/>	<input type="checkbox"/>	HH:MM

7. EJ Data

Index	Name	Type	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
        long       Rcpt_No; /*收据号*/
        byte       ClkNo;   /*收银员*/
        WORD       TblNo;   /*台号*/
        byte       Cover;   /*人数*/
        byte       IsTakeAway; /*是否是外送操作 */
        byte       IsClkIntrpt; /*是否是CLERK INTERRUPT 开台*/
        long       TtlAmt;
        WORD       RcptLen; /*存根大小*/
        WORD       Reserv;
    }EJ_HEAD; 26 bytes
    Strcut{
        byte       ID; /* Indicate the operation,*/
        WORD       nth; /* The transaction index number */
        long       price; /* The transaction item price */
        long       Qty; /* The transaction quantity */
        long       Amt; /* The transaction item total amount */
        byte       TaxNo; /* The transaction item tax No */
        byte       PerIdx; /* The Percentage idx */
        TRANSFLAG flag;
        char       Reserv;
        char       BarCode[BAR_BUFF_LEN];
    }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;
```

6.The error detection on the PC

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!