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Monarch

MCTC-HCB series

Display Selection Guide

- ☑ LOP Connection Board w/o Display
- ☑ Dot-matrix Display
- ☑ Segment Display
- ☑ Picture TFT Display
- ☑ Video TFT Display
- ☑ Appendix



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User Manual

INOVANCE

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Document No 19010457

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- This brochure is used for selecting display options, if you need more data, please contact Monarch.
- Tolerance of dimensions in this brochure: General tolerance ±0.2mm; Hole diameter tolerance ±0.1mm.
- Please refer to connector details for product wiring solution.

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introductory HCB - Quick Guide to type selection

LOP Connection Board w/o Display

MCTC-HCB-B 1

Dot-matrix Display

MCTC-HCB-R600 3
MCTC-HCB-R60M 4
MCTC-HCB-R602 5
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Segment Display

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Picture TFT Display

MCTC-HCB-T640 16
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introductory HCB - Quick Guide to type selection

Video TFT Display

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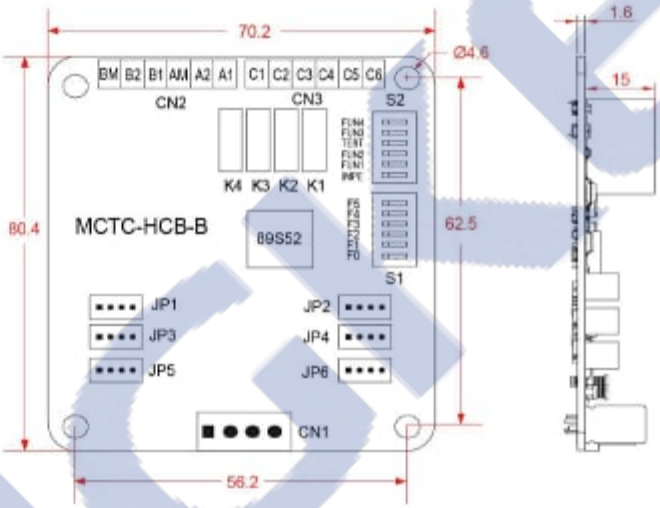
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MCTC-HCB-B

MCTC-HCB-B is a multifunctional human-machine interface connection board w/o display, which is developed by Monarch, that can be used in normal LOP, Handicap LOP, and with binary, BCD code, 7 segment code outputs.

LOP Connection Board w/o Display





Product Feature & Advantage:

- Overall dimension: 70mmX84mmX20mm
- 6 digital inputs, 4 relay outputs, 6 collector outputs
- 9 different functions can be realized via DIP switch setting, to satisfy complex requirements in various situations

Function Description & Connector Definition:

MCTC-HCB-B has 9 functions, which can be selected via FUN1, FUN2, FUN3, FUN4 of S2.

No.	Function Description	S2.6 FUN4	S2.5 FUN3	S2.3 FUN1	S2.2 FUN2
1	HCB-B Function	OFF	OFF	ON	OFF
2	Binary Output	OFF	OFF	OFF	ON
3	7 Segment Function	OFF	OFF	OFF	OFF
4	BCD code	OFF	ON	OFF	OFF
5	Binary with alphabet	OFF	ON	OFF	ON
6	Handicap Output	OFF	ON	ON	OFF
7	Hall Lantern & Arriving Gong Indication Function	ON	OFF	OFF	OFF

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Input & Output Connector Function Description:

Connector	Function	Pin Definition				Connector type See Appendix 1
		1	2	3	4	
JP1	Elevator lock input	+24V	+24V	Elevator lock input	Elevator lock indication LED output	①
JP2	Fireman service input	+24V	+24V	Fireman service input	Fireman service indication LED output	
JP3	Up Button input	+24V	+24V	Up Button input	Button illumination LED output	
JP4	Down Button input	+24V	+24V	Down Button input	Button illumination LED output	
JP5	Handicap up button input	+24V	+24V	Up Button input	Button illumination LED output	
JP6	Handicap down Button input	+24V	+24V	Down Button input	Button illumination LED output	
CN1	Power & communication connector	+24V	MOD+	MOD-	COM	②
CN2	Relay output connector	Four relay outputs				③
CN3	Collector output connector	6 collector outputs				

DIP Switch Description:

S1	1～5	Floor Address Setting, Scope 0-63
S1.1	F0	Floor Selection
S1.2	F1	Floor Selection
S1.3	F2	Floor Selection
S1.4	F3	Floor Selection
S1.5	F4	Floor Selection
S1.6	F5	Floor Selection

S2	1～5	Function Selection
S2.1	IMPE	MOD BUS Connector Resistor Setting
S2.2	FUN2	Function Selection
S2.3	FUN1	Function Selection
S2.4	TEST	For Testing
S2.5	FUN3	Function Selection
S2.6	FUN4	Function Selection

Remark:

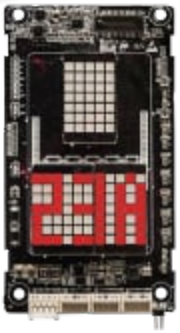
- This guide applies to MCTC-HCB-B whose software version is 0600 or above.
- V600 and above software version support software version check:

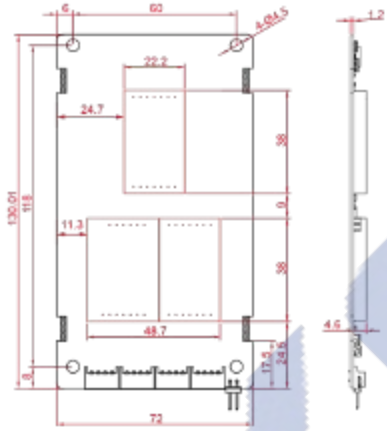
  First set S1 and S2 to ON, and connect with LOP board whose software version no. is 05** or 06** with power and communication wires, then you can see software version no. of MCTC-HCB-B in the LOP board.

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MCTC-HCB-R600

4.3' Red dot-matrix





Model \ Description	display board	appearance and function	colour
MCTC-HCB-R600S	encrypted	the same as MCTC-HCB-R600	red dot matrix
MCTC-HCB-R610	unencrypted	the same as MCTC-HCB-R600	orange dot matrix
MCTC-HCB-R610S	encrypted	the same as MCTC-HCB-R600	orange dot matrix
MCTC-HCB-R630	unencrypted	the same as MCTC-HCB-R600	white dot matrix
MCTC-HCB-R630S	encrypted	the same as MCTC-HCB-R600	white dot matrix

Product feature and advantage:

- Overall size: 130mmX72mmX5.7mm
- Ultra-thin, energy-saving mode and button slight light breathing lamp design, beautiful products
- More powerful features, installation more time saving, usage maintenance more convenient
- Scanning frequency is higher, the human eye can not feel the screen flash, more comfortable
- No risk of screen breaking, low maintenance cost
- Multiple floor settings, time saving when debugging
- Elevator fault quick detect, easy maintenance on site
- Dustproof, moisture proof, smoke proof, anticorrosive, anti vandalism, improve product durability
- Variety of interactive selection, and meet three bits simultaneous display
- D6xx、R6xx series display board car inside set address 0 (encryption authentication)
- Car outside address 1~56，DH (outside car display)

Input output connector function description:

Connector identification		CN1		CN2		CN3		CN4		CN5
connector type (see Appendix 1)		④								⑤
Function		MOD bus and power interface		Up call button connector on elevator		Down call button connector on elevator		Elevator fire lock input		Traditional address jumper wire
Pin definition	1	+24V	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	ST	Elevator lock button input	ON:Effectively set the floor at the same time by short connecting two pins + up and down buttons OFF:no jumper wire
	2	MOD+	MOD Communication line	MP24	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	
	3	MOD-	MOD Communication line	U-IN	Up call button input	D-IN	Down call button input	MP24	24V Power supply	
	4	GND	Ground	LED-UP	Up call button output	LED-DOWN	Down call button output	XF	Fireman service button input	

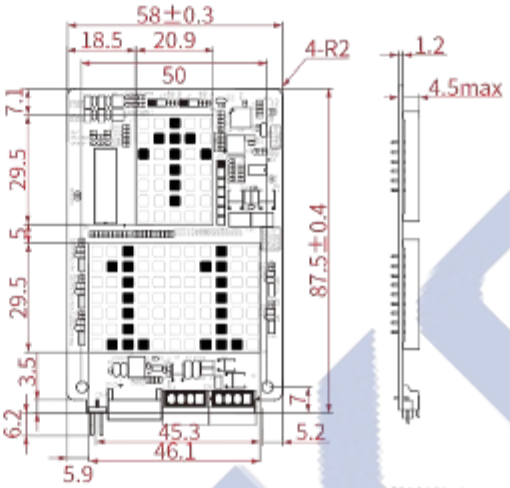
remark: 24V power source specification: 18V≤voltage≤26V; 485 communication: Baud rate default 38400; Button lamp load current≤25mA; No jumper by default;

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MCTC-HCB-R60M

3.5' Red dot-matrix





Model \ Description	display board	appearance and function	colour
MCTC-HCB-R61M	unencrypted	the same as MCTC-HCB-R60M	orange dot matrix
MCTC-HCB-R63M	unencrypted	the same as MCTC-HCB-R60M	white dot matrix
MCTC-HCB-R60MS	encrypted	the same as MCTC-HCB-R60M	red dot matrix
MCTC-HCB-R61MS	encrypted	the same as MCTC-HCB-R60M	orange dot matrix
MCTC-HCB-R63MS	encrypted	the same as MCTC-HCB-R60M	white dot matrix

Product feature and advantage:

- Overall size: 130mmX72mmX5.7mm
- Ultra-thin, mini,energy-saving mode and button slight light breathing lamp design, beautiful products
- More powerful features, installation more time saving, usage maintenance more convenient
- Scanning frequency is higher, the human eye can not feel the screen flash, more comfortable
- No risk of screen breaking, low maintenance cost
- Multiple floor settings, time saving when debugging
- Elevator fault quick detect, easy maintenance on site
- Dustproof, moisture proof, smoke proof, anticorrosive, anti vandalism, improve product durability
- Variety of interactive selection, and meet three bits simultaneous display
- D6xx、R6xx series display board car inside set address 0 (encryption authentication)
  Car outside address 1~56，DH (outside car display)

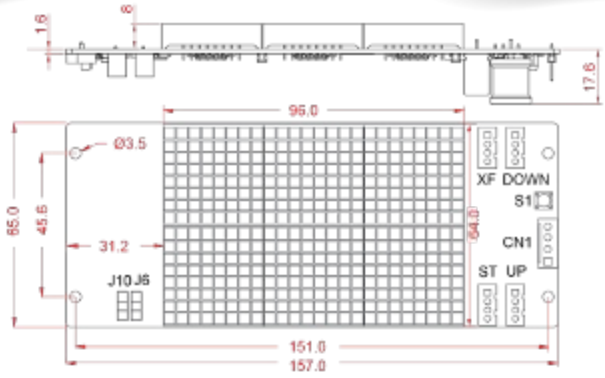
Input output connector function description:

Connector identification		CN1		CN2		CN3		CN4
connector type (see Appendix 1)		④		⑩		④		⑤
Function		MOD bus and power port		Lift UP and dowm button connector		Lift fireman lock input		Traditional address jumper wire
Pin Definition	1	+24V	24V Power supply	MP24V	24V Power supply	ST	Lock switch input	ON:Short-circuit two pin+UP/DOWN button effectively set floor at the same
	2	MOD+	MOD Communication line	MP24V	24V Power supply	MP24V	24V Power supply	
	3	MOD-	MOD Communication line	LED-UP	Up button output	MP24V	24V Power supply	
	4	GND	Ground	UP-IN	UP button input	XF	Fire key input	
	5			LED-DN	Down button output			OFF:No jumper wire
	6			DN-IN	Down button input			

MCTC-HCB-R602

Large area display

Horizontal and vertical display compatibility





MCTC-HCB-R602(S)



MCTC-HCB-R612(S)

Model \ Description	display board	appearance and function	colour
MCTC-HCB-R612	unencrypted	the same as MCTC-HCB-R602	orange dot matrix
MCTC-HCB-R602S	encrypted	the same as MCTC-HCB-R602	red dot matrix
MCTC-HCB-R612S	encrypted	the same as MCTC-HCB-R602	orange dot matrix

Product feature and advantage:

- Horizontal and vertical display modes, overall size 157mmX65mmX22mm
- 6 blocks of 8X8 red dot matrix large display area
- Chinese and English two display mode, can realize 3-digit character display at the same time, arrow scroll shows running direction
- Up and down button input, Elevator lock, fireman service input
- Button to set floor, support 56 stops call
- Maintenance display "检修" or "INS"; Display "满载" or "FULL LOAD" under full load condition; Display "超载" or "OVERLOAD" under overload condition

Input output connector function description:

Connector identification		CN1		J1		J2		J3		J4		S1
connector type (see Appendix 1)		②		①								
Function		MOD bus and power interface		Elevator lock input; Up hall lantern output		Fireman service input; Down hall lantern output		Up call button connector on elevator		Down call button connector on elevator		Floor address setting button
Pin definition	1	+24V	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	Please refer to appendix 2 solution 2 for the specific setting mode.
	2	MOD+	MOD Communication line	MP24	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	
	3	MOD-	MOD Communication line	ST	Elevator lock input	XF	Fireman service input	U-IN	Up call button input	D-IN	Down call button input	
	4	COM	GND	Up hall lantern output		Down hall lantern output		LED-UP	Up call button output	LED-DOWN	Down call button output	

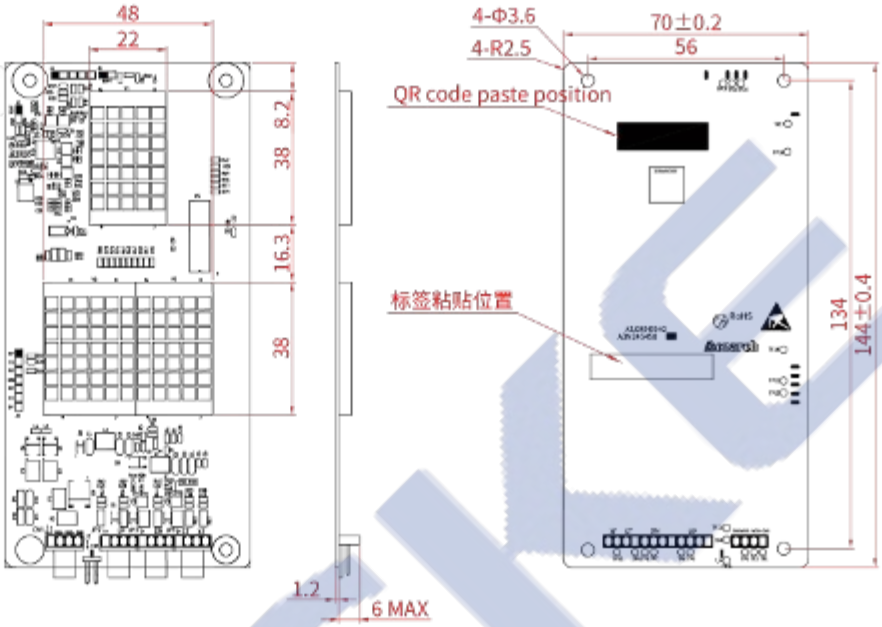
English and Chinese, horizontal and vertical display mode selection instructions:

J6 sets Chinese and English display, 1, 2 pins connect to English, 2, 3 pins connect to Chinese, default Chinese display.
J10 sets horizontal and vertical display, 1, 2 pins connect to short vertical display, 2, 3 pins connect to short horizontal display, default horizontal display.

MCTC-HCB-R603

4.3' Red dot-matrix





Model \ Description	display board	appearance and function	colour
MCTC-HCB-R603S	encrypted	the same as MCTC-HCB-R603	red dot matrix

Product feature and advantage:

- Overall size: 70mmX144mmX7.2mm
- Ultra-thin, energy-saving mode and button slight light breathing lamp design, beautiful products
- The installation size and interface are fully compatible with R1, making it easier to upgrade and replace
- Elevator fault quick detect, easy maintenance on site
- Dustproof, moisture proof,anticorrosive, anti vandalism, improve product durability
- Satisfy the three-digit display. When using in the car, set the address as 0 (encrypted authentication), D2, D3, D4, address 1-56 outside the car, DH (for display outside the car)

Input output connector function description:

Connector identification		CN1		CN2		CN3		CN4		CN5
connector type (see Appendix 1)		⑪								⑤
function		MOD Bus and power interface		Lift UP button connector		Lift Down button connector		Lift fireman lock input		Traditional address jumper wire
Pin definition	1	+24V	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	ST	Lock switch input	ON:Short-circuit two pin+UP/DOWN button effectively set floor at the same OFF:No jumper wire
	2	MOD+	MOD Communication line	MP24	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	
	3	MOD-	MOD Communication line	U-IN	UP button input	D-IN	Down button input	MP24	24V Power supply	
	4	GND	Ground	LED-UP	Up button output	LED-DOWN	Down button output	XF	Fire key input	

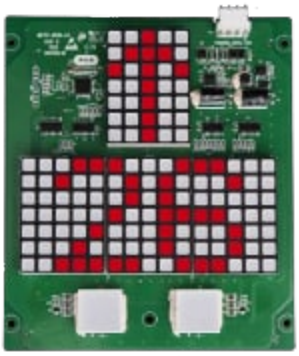
Note: 24V power specification:18V≤voltage≤26V; 485 communication:default baud rate 38400; button light load≤25mA; No-jumper wire by factory default.

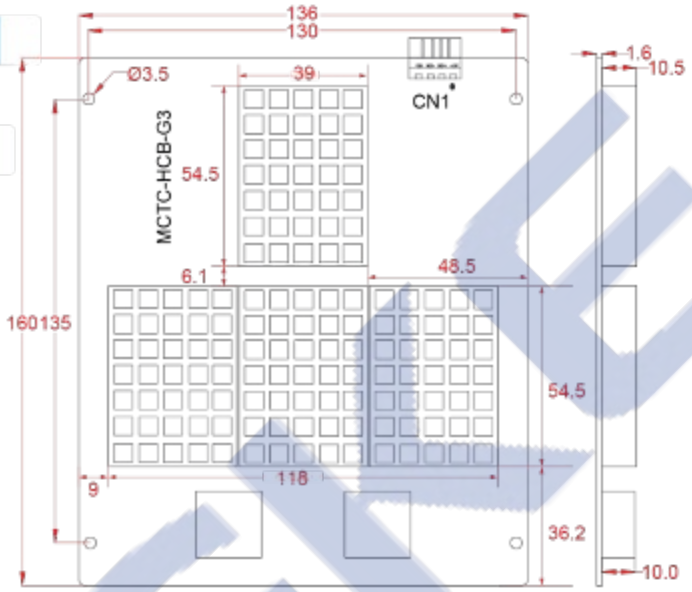
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MCTC-HCB-G3

Large dot matrix display

vertical display, red font





Product feature and advantage:

- Overall size: 136mmX160mmX14mm
- Large dot matrix car display board, red font vertical display
- 4 dot matrix display blocks and two light blocks are used to display the up and down arrows, floor information and overload and maintenance information separately

Input output connector function description:

Connector identification			CN1
connector type (see Appendix 1)			⑥
Function			MOD bus and power interface
Pin definition	1	+24V	24V Power supply
	2	MOD+	MOD Communication line
	3	MOD-	MOD Communication line
	4	COM	Ground

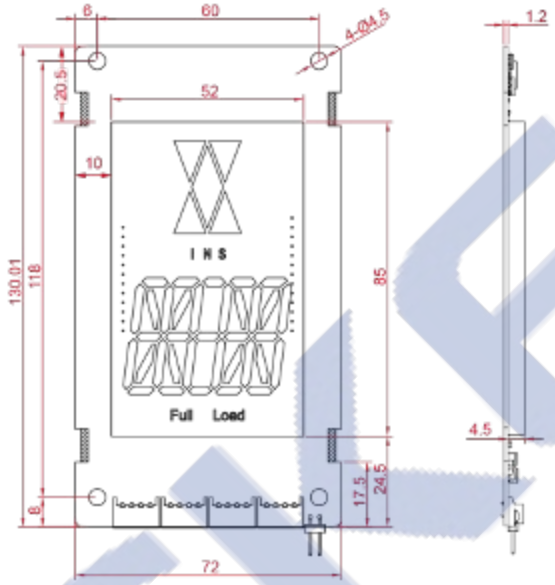
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MCTC-HCB-D630

4.3' LED segment





Model \ Description	display board	appearance and function	chinese/english	colour
MCTC-HCB-D630S	encrypted	the same as MCTC-HCB-D630	chinese	white
MCTC-HCB-D634	unencrypted	the same as MCTC-HCB-D630	english	white
MCTC-HCB-D634S	encrypted	the same as MCTC-HCB-D630	english	white
MCTC-HCB-D610	unencrypted	the same as MCTC-HCB-D630	chinese	orange
MCTC-HCB-D610S	encrypted	the same as MCTC-HCB-D630	chinese	orange
MCTC-HCB-D614	unencrypted	the same as MCTC-HCB-D630	english	orange
MCTC-HCB-D614S	encrypted	the same as MCTC-HCB-D630	english	orange
MCTC-HCB-D600	unencrypted	the same as MCTC-HCB-D630	chinese	red
MCTC-HCB-D600S	encrypted	the same as MCTC-HCB-D630	chinese	red
MCTC-HCB-D604	unencrypted	the same as MCTC-HCB-D630	english	red
MCTC-HCB-D604S	encrypted	the same as MCTC-HCB-D630	english	red

Product feature and advantage:

- Overall size: 136mmX160mmX14mm
- Ultra-thin, energy-saving mode and button slight light breathing lamp design, beautiful products
- More powerful features, installation more time saving, usage maintenance more convenient
- Scanning frequency is higher, the human eye can not feel the screen flash, more comfortable
- Multiple floor settings, time saving in height
- Elevator fault quick detect, easy maintenance on site
- Dustproof, moisture proof, smoke proof, anticorrosive, anti vandalism, improve product durability
- Variety of interactive selection, and support 3-digit character display
- D6xx、R6xx series display board car inside set address 0 (encryption authentication)

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Input output connector function description:

Connector identification		CN1		CN2		CN3		CN4		CN5
connector type (see Appendix 1)		④								⑤
function		MOD Bus and power interface		Lift UP button connector		Lift Down button connector		Lift fireman lock input		Traditional address jumper wire
Pin definition	1	+24V	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	ST	Lock switch input	ON:Short-circuit two pin+UP/DOWN button effectively set floor at the same OFF:No jumper wire
	2	MOD+	MOD Communication line	MP24	24V Power supply	MP24	24V Power supply	MP24	24V Power supply	
	3	MOD-	MOD Communication line	U-IN	UP button input	D-IN	Down button input	MP24	24V Power supply	
	4	GND	Ground	LED-UP	Up button output	LED-DOWN	Down button output	XF	Fire key input	

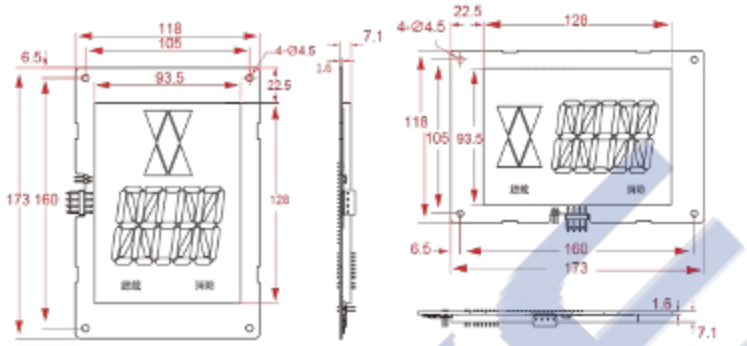
Note: 24V power specification:18V≤voltage≤26V; 485 communication:default baud rate 38400; button light load≤25mA; No-jumper wire by factory default.

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MCTC-HCB-D631

6.4' LED segment





Model \ Description	display board	appearance and function	chinese/english	display	colour
MCTC-HCB-D632	unencrypted	the same as MCTC-HCB-D631	chinese	horizontal display	white illumination LED segment
MCTC-HCB-D635	unencrypted	the same as MCTC-HCB-D631	english	vertical display	white illumination LED segment
MCTC-HCB-D636	unencrypted	the same as MCTC-HCB-D631	english	vertical display	white illumination LED segment
MCTC-HCB-D601	unencrypted	the same as MCTC-HCB-D631	chinese	vertical display	red illumination LED segment
MCTC-HCB-D602	unencrypted	the same as MCTC-HCB-D631	chinese	horizontal display	red illumination LED segment
MCTC-HCB-D605	unencrypted	the same as MCTC-HCB-D631	english	vertical display	red illumination LED segment
MCTC-HCB-D606	unencrypted	the same as MCTC-HCB-D631	english	horizontal display	red illumination LED segment
MCTC-HCB-D611	unencrypted	the same as MCTC-HCB-D631	chinese	vertical display	orange illumination LED segment
MCTC-HCB-D612	unencrypted	the same as MCTC-HCB-D631	chinese	horizontal display	orange illumination LED segment
MCTC-HCB-D615	unencrypted	the same as MCTC-HCB-D631	english	vertical display	orange illumination LED segment
MCTC-HCB-D616	unencrypted	the same as MCTC-HCB-D631	english	horizontal display	orange illumination LED segment
MCTC-HCB-D631S	encrypted	the same as MCTC-HCB-D631	chinese	vertical display	white illumination LED segment
MCTC-HCB-D632S	encrypted	the same as MCTC-HCB-D631	chinese	horizontal display	white illumination LED segment
MCTC-HCB-D635S	encrypted	the same as MCTC-HCB-D631	english	vertical display	white illumination LED segment
MCTC-HCB-D636S	encrypted	the same as MCTC-HCB-D631	english	horizontal display	white illumination LED segment
MCTC-HCB-D601S	encrypted	the same as MCTC-HCB-D631	chinese	vertical display	red illumination LED segment
MCTC-HCB-D602S	encrypted	the same as MCTC-HCB-D631	chinese	horizontal display	red illumination LED segment
MCTC-HCB-D605S	encrypted	the same as MCTC-HCB-D631	english	vertical display	red illumination LED segment
MCTC-HCB-D606S	encrypted	the same as MCTC-HCB-D631	english	horizontal display	red illumination LED segment
MCTC-HCB-D611S	encrypted	the same as MCTC-HCB-D631	chinese	vertical display	orange illumination LED segment
MCTC-HCB-D612S	encrypted	the same as MCTC-HCB-D631	chinese	horizontal display	orange illumination LED segment
MCTC-HCB-D615S	encrypted	the same as MCTC-HCB-D631	english	vertical display	orange illumination LED segment
MCTC-HCB-D616S	encrypted	the same as MCTC-HCB-D631	english	horizontal display	orange illumination LED segment

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Product feature and advantage:

- working environment temperature:-10°C~40°C
- 6.4' LED segment display
- No risk of screen breaking, low maintenance cost
- DC24V power input, Modbus communications
- MCTC-HCB-D631S interface is consistent with MCTC-HCB-D631
- Support 3-digits display, energy-saving mode, setting address to 0(cryptographic),D2,D3,D4,need to use MCTC-HCB-B when used for HALL CALL

Input output connector function description:

Connector identification		CN1		CN5
connector type		⑧		
function		MOD bus and power interface		traditional address jumper wire
Pin definition	1	GND	Ground	Short-circuit CN5,address changes every 2s,the address flashes 3times after release to save
	2	MOD-	MOD Communication line	
	3	MOD+	MOD Communication line	
	4	+24V	24V Power supply	

Note:24V power specification:18V≤voltage≤26V; 485 communication: default baud rate 38400;

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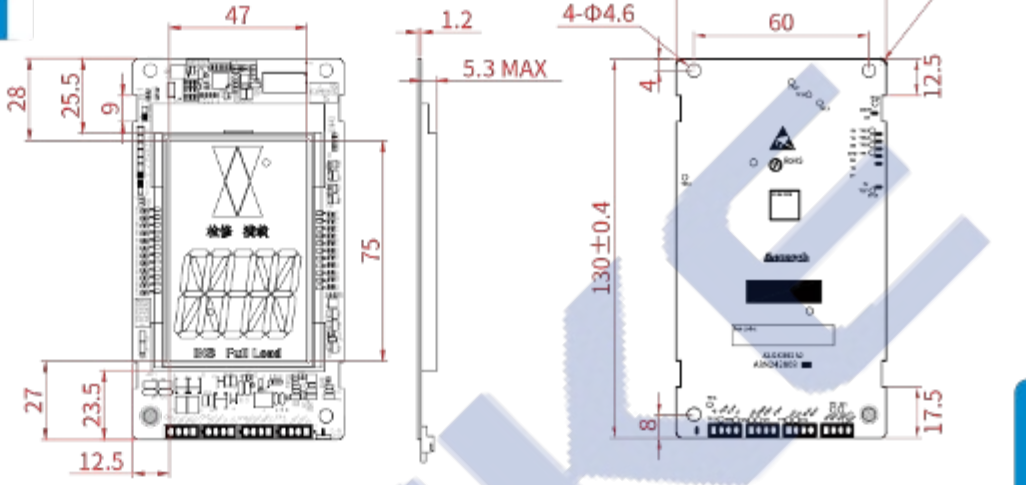
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MCTC-HCB-U670

3.5' LCD segment





Model \ Description	display board	appearance and function	colour
MCTC-HCB-U670S	encrypted	the same as MCTC-HCB-U670	blue background white letters

Product feature and advantage:

- Overall size: 72mmX130mmX5.3mm
- working environment temperature:-10°C~40°C
- Ultra-thin design, installation size is consistent with D630 and R600
- increases LCD protection corner to reduce the risk of screen breaking
- support 3-digits display,energy saving mode, button slightly lighting
- Energy-saving mode and slight lighting breathing light design of button,elegant product with more powerful function,more time saving installation,use and maintenance are more convenient
- U670 display board address set in cabin to 0(cryptographic), D2,D3,D4,outside address 1~56,DH(used for outside display)

Input output connector function description:

Connector identification		CN1		CN2		CN3		CN4		CN5
connector type (see Appendix 1)		④								⑤
function		MOD bus and power interface		Lift UP button connector		Lift Dowm button connector		Lift fireman lock input		Traditional address wiring
Pin definition	1	+24V	24V power supply	MP24	24V power supply	MP24	24V power supply	ST	Lock switch input	ON:Short-circuit two pin+UP/DOWN button effectively set floor at t he same
	2	MOD+	MOD Communication line	MP24	24V power supply	MP24	24V power supply	MP24	24V power supply	
	3	MOD-	MOD Communication line	U-IN	UP button input	D-IN	Down button input	MP24	24V power supply	OFF:No jumper wire
	4	GND	Ground	LED-UP	UP button output	LED-DOWN	Down button output	XF	Fire key input	

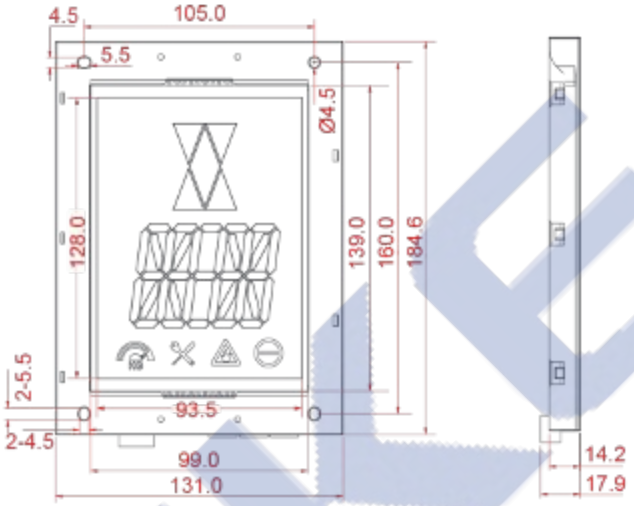
Note:24V power specification:18V≤voltage≤26V; 485 communication:default baud rate 38400; button light load≤25mA; No-jumper wire by factory default.

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MCTC-HCB-U671

6.4' LCD segment





Model \ Description	display board	appearance and function	colour
MCTC-HCB-U671S	encrypted	the same as MCTC-HCB-U671	blue background white letters
MCTC-HCB-U631	unencrypted	the same as MCTC-HCB-U671	black background white letters
MCTC-HCB-U631S	encrypted	the same as MCTC-HCB-U671	black background white letters

Product feature and advantage:

- Overall size: 131mmX184.6mmX17.9mm
- working environment temperature:-10°C~40°C
- Widescreen 6.4' LCD segment display (Vertical display)
- display feature:blue background white letter
- DC24V power supply,Modbus communications
- MCTC-HCB-U671 interface is consistent with MCTC-HCB-U631
- With black cover in one for sale, easy to install,elegant appearance
- Support 3-digits display, energy-saving mode, setting address to 0(cryptographic),D2,D3,D4,need to use MCTC-HCB-B when used for HALL CALL

Input output connector function description:

Connector identification		CN1		J5
connector type		⑥		
function		MOD bus and power interface		Traditional address jumper wire
Pin definition	1	+24V	24V power supply	Short-circuit CN5,address changes every 2s,the address flashes 3 times after release to save
	2	MOD+	MOD Communication line	
	3	MOD-	MOD Communication line	
	4	GND	Ground	

Note:24V power specification:18V≤voltage≤26V; 485 communication:default baud rate 38400; button light load≤25mA; No-jumper wire by factory default.

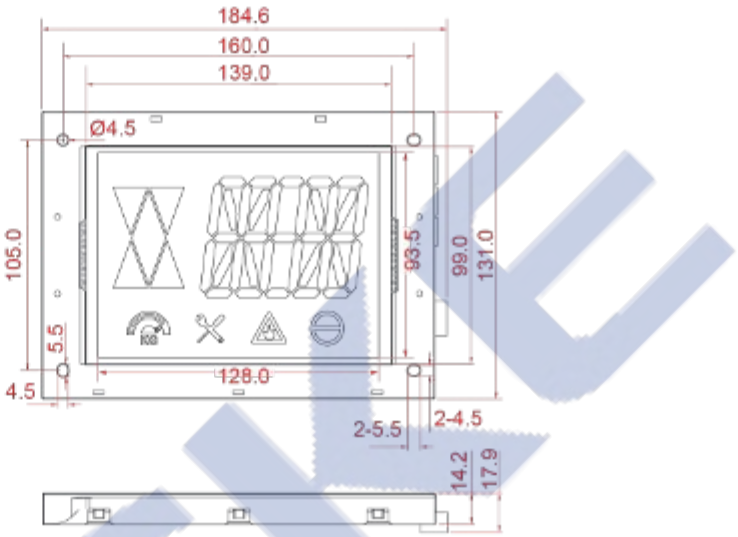
Tel: +8613862100492 DENGKE ravan@dengkee.com

MCTC-HCB-U672

6.4' LCD segment







Model \ Description	display board	appearance and function	colour
MCTC-HCB-U672S	encrypted	the same as MCTC-HCB-U672	blue background white letters
MCTC-HCB-U632S	encrypted	the same as MCTC-HCB-U672	black background white letters
MCTC-HCB-U632	unencrypted	the same as MCTC-HCB-U672	black background white letters

Product feature and advantage:

- Overall dimension: 184.6mmX131mmX17.9mm
- Working environment temperature:-10°C~40°C
- Widescreen 6.4' LCD segment display(landscape), display feature:blue background white letter
- DC24V power supply,Modbus communications
- MCTC-HCB-U672 interface is consistent with MCTC-HCB-U632
- With black cover in one for sale, easy to install,elegant appearance
- Support 3-digits display, energy-saving mode, setting address to 0(cryptographic),D2,D3,D4,need to use MCTC-HCB-B when used for HALL CALL

Input output connector function description:

Connector identification		CN1		J5
connector type		⑥		
function		MOD bus and power interface		Traditional address jumper wire
Pin definition	1	+24V	24V power supply	Short-circuit CN5,address changes every 2s,the address flashes 3 times after release to save.
	2	MOD+	MOD Communication line	
	3	MOD-	MOD Communication line	
	4	GND	Ground	

Note:24V power specification:18V≤voltage≤26V; 485 communication:default baud rate 38400; button light load≤25mA; No-jumper wire by factory default.

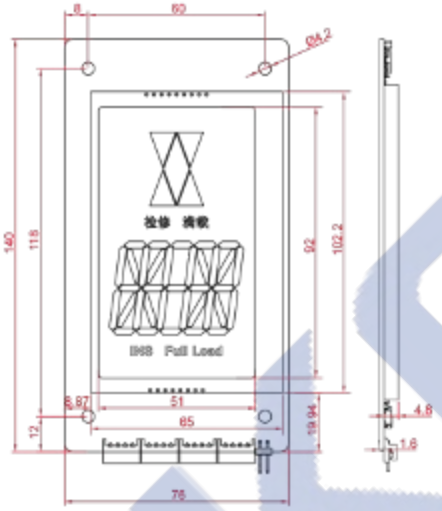
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MCTC-HCB-U673

4.3' LCD segment





Model \ Description	display board	appearance and function	colour
MCTC-HCB-U673S	encrypted	the same as MCTC-HCB-U673	blue background white letters
MCTC-HCB-U633S	encrypted	the same as MCTC-HCB-U673	black background white letters
MCTC-HCB-U633	unencrypted	the same as MCTC-HCB-U673	black background white letters

Product feature and advantage:

- Overall dimension: 76mmX140mmX6.4mm
- Working environment temperature:-10°C~40°C
- Ultrathin design, thickness reduced 38% compared to U1 products
- Dust-proof,moisture-proof,smoke-proof,anticorisive, anti-static
- increases LCD protection corner to reduce the risk of screen breaking
- support 3-digits display,energy saving mode,button slightly lighting
- Energy-saving mode and slight lighting breathing light design of button,elegant product with more powerful function,more time saving installation,use and maintenance are more convenient
- U673 display board address set in cabin to 0(cryptographic), D2,D3,D4,outside address 1~56,DH(used for outside display)

Input output connector function description:

Connector identification		CN1		CN2		CN3		CN4		CN5
connector type (see Appendix 1)		④								⑤
function		MOD bus and power interface		Lift UP button connector		Lift Dowm button connector		Lift fireman lock input		Traditional address wiring
Pin definition	1	+24V	24V power supply	MP24	24V power supply	MP24	24V power supply	ST	Lock switch input	ON:Short-circuit two pin+UP/DOWN button effectively set floor at t he same
	2	MOD+	MOD Communication line	MP24	24V power supply	MP24	24V power supply	MP24	24V power supply	
	3	MOD-	MOD Communication line	U-IN	UP button input	D-IN	Down button input	MP24	24V power supply	OFF:No jumper wire
	4	GND	Ground	LED-UP	UP button output	LED-DOWN	Down button output	XF	Fire key input	

Note:24V power specification:18V≤voltage≤26V; 485 communication:default baud rate 38400; button light load≤25mA; No-jumper wire by factory default.

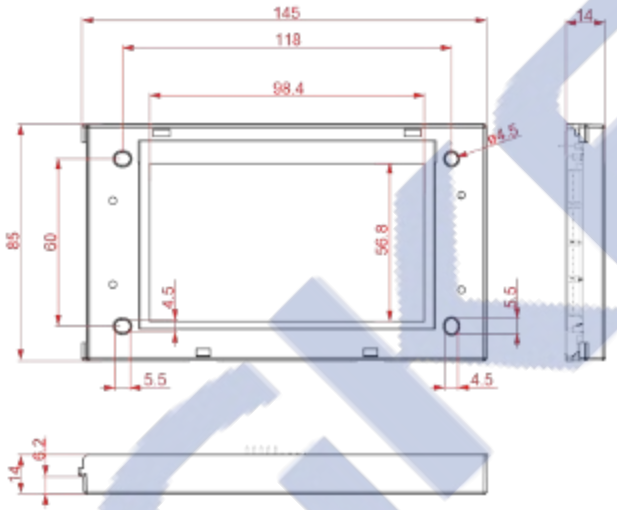
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MCTC-HCB-T640

MCTC-HCB-T640 series TFT picture display, The elevator running direction, floor, special functions and other information are displayed in a gorgeous color image,Presented in front of passengers in various styles, Add a sense of sophistication to the building.

4.3 Inch Picture Display





Model \ Description	display board	appearance and function
MCTC-HCB-T640S	encrypted	the same as MCTC-HCB-T640

Product feature and advantage:

- Working environment temperature:-20 ~ 70 °C
- Widescreen4.3 inch TFT LCD display; Resolution:480×272
- Display mode:Vertical Display;
  Display area size:95 mm×54 mm
- power:24V DC, Means of communication:485 Communication
- Service 56 floors, Standard Lock Ladders, fire fighting, maintenance, full load VIP display function
- Background pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- The display module is matched with an external hoo tray and is used for the external lift of the sedan
- With black cover in one for sale, easy to install,elegant appearance
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display

Power Supply & RS485 Signal Interface:

Connector identification	CN1			CN2		CN3		CN4	
connector type (see Appendix)	④			④		④		④	
function	MOD bus and power interface			Lift UP button connector		Lift DOWN button connector		Lift fireman lock input	
Pin definition	1	GND	Ground	LED	UP button output	LED	Down button output	XF	Fire key input
	2	MOD-	MOD Communication line	UP	UP button input	DN	Down button input	M24V	24V Power supply
	3	MOD+	MOD Communication line	M24V	24V Power supply	M24V	24V Power supply	M24V	24V Power supply
	4	+24V	24V Power supply	M24V	24V Power supply	M24V	24V Power supply	ST	Lock switch input
Connector identification	S1					S2			
function	Floor address setting switch, When setting the floor address, Shorted S1 jump cap to on position, Set the floor address by the up and down buttons.					RS485 terminal resistance setting			

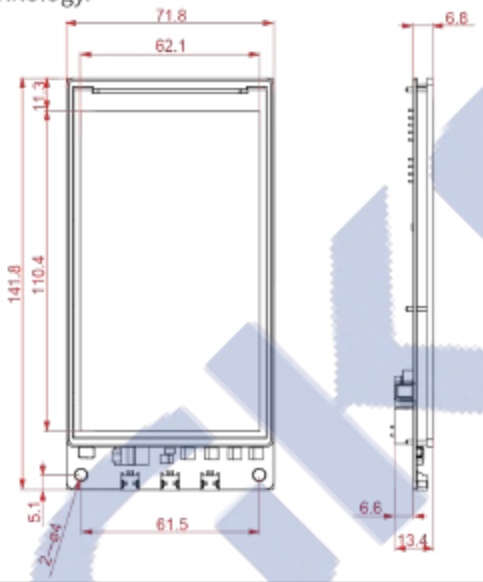
DENGKE

MCTC-HCB-T613

MCTC-HCB-T613 series TFT picture display, It is mainly used for external lift, Take the floor, running direction, special function and so on of the elevator with the ratio of super high screen,In full-color images,Can Be used with gorgeous dynamic background to fully display the building technology.

5 Inch Picture Display





Model \ Description	display board	appearance and function
MCTC-HCB-T613S	encrypted	the same as MCTC-HCB-T613

Product feature and advantage:

- Working environment temperature: -20 ~ 70 °C
- Widescreen 5 inch TFT LCD display; Resolution: 854*480
- Display mode: Vertical Display;
  Display area size: 59.8*107.9mm
- power: 24V DC, Means of communication: 485 Communication
- Service 56 floors, Standard Lock Ladders, fire fighting, maintenance, full load VIP display function
- Background pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- The display module is matched with an external hoo tray and is used for the external lift of the sedan
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display

Power Supply & RS485 Signal Interface:

Connector identification	JA			JB		JD		P1		SPEAKER2
connector type (see Appendix)	⑩			⑩		⑩		⑨		
function	Lift UP button connector			Lift Dowm button connector		Lift fireman lock input		MOD bus and power interface		
Pin definition	1	LED	UP button output	LED	Dowm button output	XF	Fire key input	+24V	24V Power supply	External Speaker interface
	2	UP	UP button input	DN	Dowm button input	M24V	24V Power supply	MOD+	MOD Communication line	
	3	M24V	24V Power supply	M24V	24V Power supply	M24V	24V Power supply	MOD-	MOD Communication line	
	4	M24V	24V Power supply	M24V	24V Power supply	ST	Lock switch input	GND	Ground	
Connector identification	SW1									
function	The ARD set dial sets the switch for the floor address, When setting the floor address, Dial the code to on, Set the floor address by the up and down buttons. Rt Dial for terminal resistance									

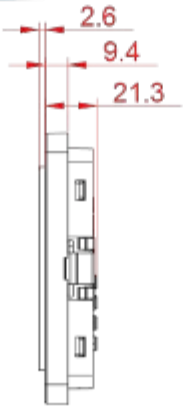
DENGKE

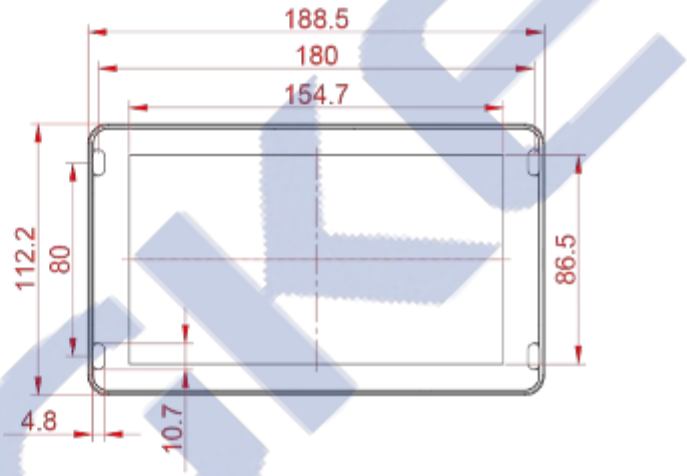
MCTC-HCB-T647

MCTC-HCB-T647 series 7 inch TFT picture display can play colorful advertising pictures clearly and smoothly, and can be combined with soft background music to give passengers a relaxed and pleasant elevator riding experience, and let the car seems more elegant. It is suitable for business office buildings, residential areas, hotels or other places.

7 Inch Picture Display







Model \ Description	display board	appearance and function
MCTC-HCB-T647S	encrypted	the same as MCTC-HCB-T647

Product feature and advantage:

- Match with COP, work as display in the car
- Same installation dimensions with old model MCTC-DCB-T070/ T070A/ T2/ T5 for replacement
- Background pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display



Horizontal Display

Main Technical Parameters:

Size	7 inch	Voltage/Current	24V/≤600mA
RTC	Built-in	Loudspeaker	Built-in, 3.5mm interface reserved
Display Area (mm)	154.7*86.5	Color Depth	RGB666 (64K)
Brightness	250	Resolution	800*480
Display Visual Angle	70-70-60-70	Working Environment	-20~70°C, 10~90%RH
Contrast Ratio	500:1	Storage Environment	-30~80°C, 10~90%RH

Function Descriptions:

Interface Display Function	Real-time display elevator running floor/direction status;
	Arrow can be static or dynamic , four rates of rolling speed adjustable;
Alarm Display Function	Real-time receiving signals from control panel, display "In maintenance" / "Breakdown"/"Locked"/ "Firefighting "/"Overload"/"Emergency operation" etc;
Picture Play Function	Play pictures (in png. format) in loop,vertical and horizontal pictures in total 32pcs;
Manual Setting Function	Push physical button to enter manual settings,such as vertical/horizontal,Chinese/English, LOGO, Words of welcome, load, persons,volume,date,time,address. Can be set flexibly as per customer's demands;
Information Display Function (showing or hiding optional)	Display Customer's LOGO, and LOGO can be changed by changing pictures;
	Display date, week, time, adjustable by setting in manual;
	Words of welcome show in static picture format, can be changed by upgrading pictures;
	Display load person quantity, choose mode by push button style manual, mode setting standard please refer to <TFT Product Load Setting Instructions>;
Interface Switch Function	Four interfaces: Vertical / Horizontal / Chinese / English, choose by manual setting;
Voice Announcer Function	Chinese language interface broadcasts bilingual floor info, for example: "1 楼到了, first floor";
	English language interface broadcasts bilingual floor info, for example: "First floor";
Background Music Play Function (Support to show or hide)	Beautiful music plays in loop, can be stoped by manual setting;
USB Upgrade Function	128M storage space, transfer documents/pictures through USB flash disk, and the U-flash can be removed after upgrading, easy to operate;

Power Supply & RS485 Signal Interface:

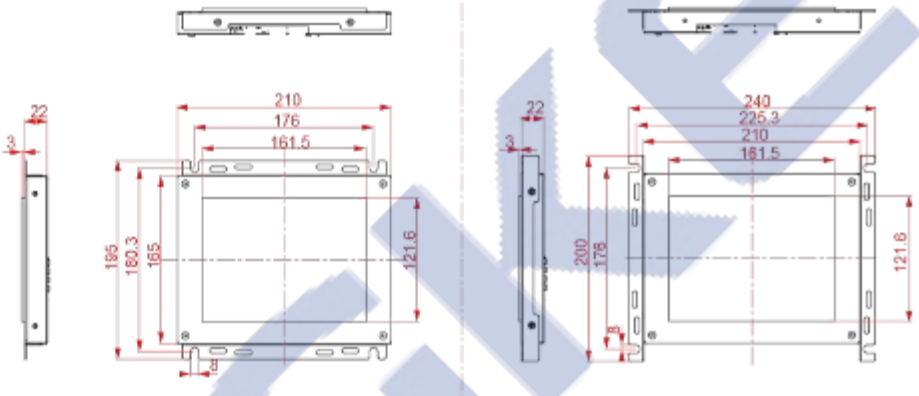
Connector identification	J6			SPEAKER2
connector type (see Appendix)	⑥			External speaker interface
function	MOD Bus & Power Supply Interface			
Pin definition	1	+24V	24V power supply	
	2	MOD+	MOD communication wire	
	3	MOD-	MOD communication wire	
	4	GND	Ground wire	

MCTC-HCB-T648

MCTC-HCB-T648 series 8 inch TFT picture display can play colorful advertising pictures clearly and smoothly, and can be combined with soft background music to give passengers a relaxed and pleasant elevator riding experience, and let the car seems more elegant. It is suitable for business office buildings, residential areas, hotels or other places.

8 Inch Picture Display





Model \ Description	display board	appearance and function
MCTC-HCB-T648S	encrypted	the same as MCTC-HCB-T648

Product feature and advantage:

- Match with COP, work as display in the car
- Same installation dimensions with old model MCTC-DCB-T080/ T080A for replacement
- Videos/pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display



Horizontal Display

Main Technical Parameters:

Size	8 inch	Voltage/Current	24V/≤800mA
RTC	Built-in	Loudspeaker	Built-in, 3.5mm interface reserved
Display Area (mm)	161.5*121.6	Resolution	800*600
Brightness	300	Color Depth	RGB666 (64K)
Display Visual Angle	70-70-60-70	Working Environment	-20~70°C, 10~90%RH
Contrast Ratio	500:1	Storage Environment	-30~80°C, 10~90%RH

Function Descriptions:

Interface Display Function	Real-time display elevator running floor/direction status;
	Arrow can be static or dynamic , four rates of rolling speed adjustable;
Alarm Display Function	Real-time receiving signals from control panel, display "In maintenance" / "Breakdown"/"Locked"/ "Firefighting "/"Overload"/"Emergency operation" etc;
Picture Play Function	Play pictures (in png. format) in loop,vertical and horizontal pictures in total 32pcs;
Manual Setting Function	Push physical button to enter manual settings,such as vertical/horizontal,Chinese/English, LOGO, Words of welcome, load, persons,volume,date,time,address. Can be set flexibly as per customer's demands;
Information Display Function (showing or hiding optional)	Display Customer's LOGO, and LOGO can be changed by changing pictures;
	Display date, week, time, adjustable by setting in manual;
	Words of welcome show in static picture format, can be changed by upgrading pictures;
	Display load person quantity, choose mode by push button style manual, mode setting standard please refer to <TFT Product Load Setting Instructions>;
Interface Switch Function	Four interfaces: Vertical / Horizontal / Chinese / English, choose by manual setting;
Voice Announcer Function	Chinese language interface broadcasts bilingual floor info, for example: "1 楼到了, first floor";
	English language interface broadcasts bilingual floor info, for example: "First floor";
Background Music Play Function (Support to show or hide)	Beautiful music plays in loop, can be stoped by manual setting;
USB Upgrade Function	128M storage space, transfer documents/pictures through USB flash disk, and the U-flash can be removed after upgrading, easy to operate;

Power Supply & RS485 Signal Interface:

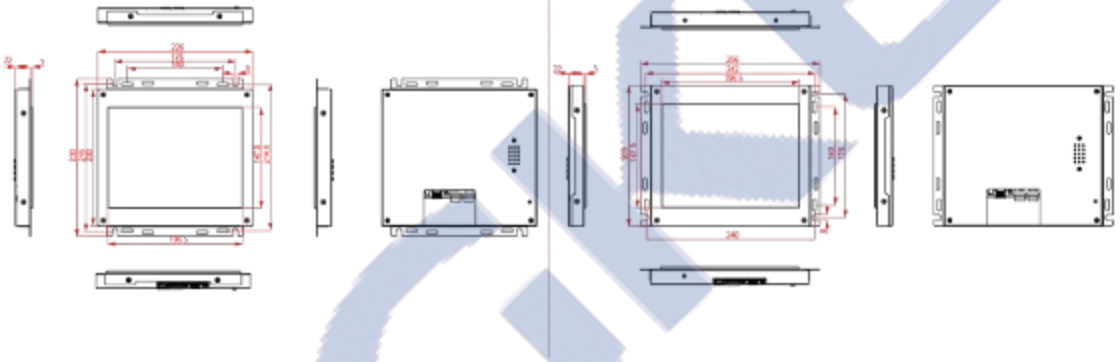
Connector identification	P2			SPEAKER2
connector type (see Appendix)	⑥			External speaker interface
function	MOD Bus & Power Supply Interface			
Pin definition	1	+24V	24V power supply	
	2	MOD+	MOD communication wire	
	3	MOD-	MOD communication wire	
	4	GND	Ground wire	

MCTC-HCB-T649

MCTC-HCB-T649 series 9.7 inch TFT picture display can play colorful advertising pictures clearly and smoothly, and can be combined with soft background music to give passengers a relaxed and pleasant elevator riding experience, and let the car seems more elegant. It is suitable for business office buildings, residential areas, hotels or other places.

9.7 Inch Picture Display





Model \ Description	display board	appearance and function
MCTC-HCB-T649S	encrypted	the same as MCTC-HCB-T649

Product feature and advantage:

- Match with COP, work as display in the car
- Background pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display



Horizontal Display

Main Technical Parameters:

Size	9.7 inch	Voltage/Current	24V/≤1500mA
RTC	Built-in	Loudspeaker	Built-in, 3.5mm interface reserved
Display Area (mm)	196.5*147.5	Resolution	1024*768
Brightness	300	Color Depth	RGB666 (64K)
Display Visual Angle	60-55-60-60	Working Environment	- 20~70°C, 10~90%RH
Contrast Ratio	500:1	Storage Environment	- 30~80°C, 10~90%RH

Function Descriptions:

Interface Display Function	Real-time display elevator running floor/direction status;
	Arrow can be static or dynamic , four rates of rolling speed adjustable;
Alarm Display Function	Real-time receiving signals from control panel, display "In maintenance" / "Breakdown"/"Locked"/ "Firefighting "/"Overload"/"Emergency operation" etc;
Picture Play Function	Play pictures (in png. format) in loop,vertical and horizontal pictures in total 32pcs;
Manual Setting Function	Push physical button to enter manual settings,such as vertical/horizontal,Chinese/English, LOGO, Words of welcome, load, persons,volume,date,time,address. Can be set flexibly as per customer's demands;
Information Display Function (showing or hiding optional)	Display Customer's LOGO, and LOGO can be changed by changing pictures;
	Display date, week, time, adjustable by setting in manual;
	Words of welcome show in static picture format, can be changed by upgrading pictures;
	Display load person quantity, choose mode by push button style manual, mode setting standard please refer to <TFT Product Load Setting Instructions>;
Interface Switch Function	Four interfaces: Vertical / Horizontal / Chinese / English, choose by manual setting;
Voice Announcer Function	Chinese language interface broadcasts bilingual floor info, for example: "1 楼到了, first floor";
	English language interface broadcasts bilingual floor info, for example: "First floor";
Background Music Play Function (Support to show or hide)	Beautiful music plays in loop, can be stoped by manual setting;
USB Upgrade Function	128M storage space, transfer documents/pictures through USB flash disk, and the U-flash can be removed after upgrading, easy to operate;

Power Supply & RS485 Signal Interface:

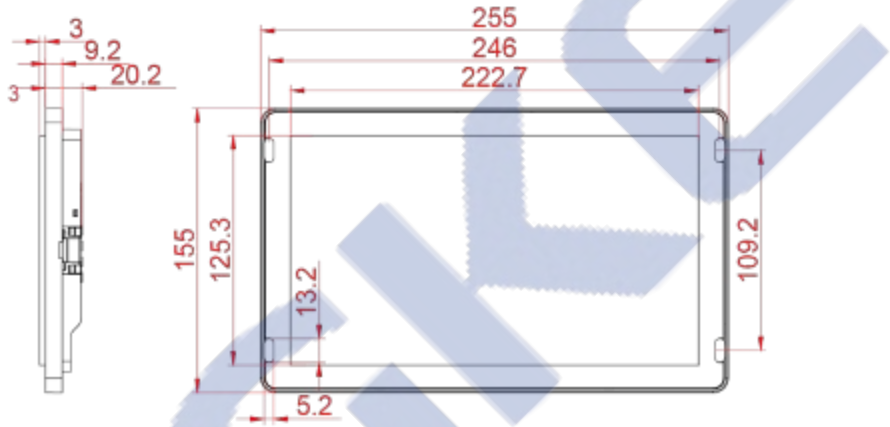
Connector identification	P2			SPEAKER2
connector type (see Appendix)	⑥			External speaker interface
function	MOD Bus & Power Supply Interface			
Pin definition	1	+24V	24V power supply	
	2	MOD+	MOD communication wire	
	3	MOD-	MOD communication wire	
	4	GND	Ground wire	

MCTC-HCB-T64A

MCTC-HCB-T64A series 10.1 inch TFT picture display can play colorful advertising pictures clearly and smoothly, and can be combined with soft background music to give passengers a relaxed and pleasant elevator riding experience, and let the car seems more elegant. It is suitable for business office buildings, residential areas, hotels or other places.

10.1 Inch Picture Display





Model \ Description	display board	appearance and function
MCTC-HCB-T64AS	encrypted	the same as MCTC-HCB-T64A

Product feature and advantage:

- Match with COP, work as display in the car
- Background pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display



Horizontal Display

Main Technical Parameters:

Size	10.1 inch	Voltage/Current	24V/≤1500mA
RTC	Built-in	Loudspeaker	Built-in, 3.5mm interface reserved
Display Area (mm)	222.7*125.3	Resolution	1024*600
Brightness	250	Color Depth	RGB666 (64K)
Display Visual Angle	85-85-85-85	Working Environment	- 20~70°C, 10~90%RH
Contrast Ratio	500:1	Storage Environment	- 30~80°C, 10~90%RH

Function Descriptions:

Interface Display Function	Real-time display elevator running floor/direction status;
	Arrow can be static or dynamic , four rates of rolling speed adjustable;
Alarm Display Function	Real-time receiving signals from control panel, display "In maintenance" / "Breakdown"/"Locked"/ "Firefighting "/"Overload"/"Emergency operation" etc;
Picture Play Function	Play pictures (in png. format) in loop,vertical and horizontal pictures in total 32pcs;
Manual Setting Function	Push physical button to enter manual settings,such as vertical/horizontal,Chinese/English, LOGO, Words of welcome, load, persons,volume,date,time,address. Can be set flexibly as per customer's demands;
Information Display Function (showing or hiding optional)	Display Customer's LOGO, and LOGO can be changed by changing pictures;
	Display date, week, time, adjustable by setting in manual;
	Words of welcome show in static picture format, can be changed by upgrading pictures;
	Display load person quantity, choose mode by push button style manual, mode setting standard please refer to <TFT Product Load Setting Instructions>;
Interface Switch Function	Four interfaces: Vertical / Horizontal / Chinese / English, choose by manual setting;
Voice Announcer Function	Chinese language interface broadcasts bilingual floor info, for example: "1 楼到了, first floor";
	English language interface broadcasts bilingual floor info, for example: "First floor";
Background Music Play Function (Support to show or hide)	Beautiful music plays in loop, can be stoped by manual setting;
USB Upgrade Function	128M storage space, transfer documents/pictures through USB flash disk, and the U-flash can be removed after upgrading, easy to operate;

Power Supply & RS485 Signal Interface:

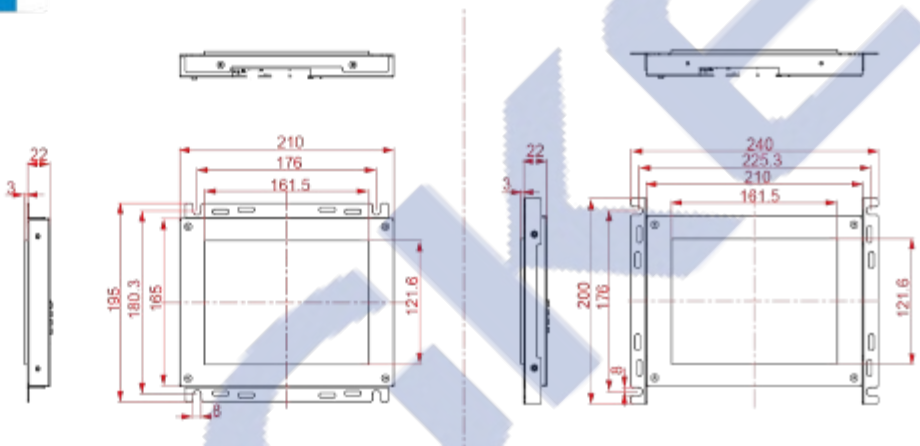
Connector identification	J6			SPEAKER2
connector type (see Appendix)	⑥			External speaker interface
function	MOD Bus & Power Supply Interface			
Pin definition	1	+24V	24V power supply	
	2	MOD+	MOD communication wire	
	3	MOD-	MOD communication wire	
	4	GND	Ground wire	

MCTC-HCB-M618

MCTC-HCB-M618 series 8 inch TFT vedio display has function of playing multimedia vedio, its dynamic images are colorful, clear and fluent. It is suitable for showing advertisements, company profiles etc. It strengthens the sense of science and technology, makes the lift smarter. Moreover, it is easy for customers to set the playing of static pictures/ music/vedios.

8 inch Video Display





Model \ Description	display board	appearance and function
MCTC-HCB-M618S	encrypted	the same as MCTC-HCB-M618

Product feature and advantage:

- Match with COP, work as display in the car
- Videos/pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display



Horizontal Display

Main Technical Parameters:

Size	8 inch	Voltage/Current	24V/≤800mA
RTC	Built-in	Loudspeaker	Built-in, 3.5mm interface reserved
Display Area (mm)	161.5*121.6	Resolution	800*600
Brightness	300	Color Depth	RGB666 (64K)
Display Visual Angle	70-70-60-70	Working Environment	- 20~70°C, 10~90%RH
Contrast Ratio	500:1	Storage Environment	- 30~80°C, 10~90%RH

Function Descriptions:

Interface Display Function	Real-time display elevator running floor/direction status;
	Arrow can be static or dynamic , four rates of rolling speed adjustable;
Alarm Display Function	Real-time receiving signals from control panel, display "In maintenance" / "Breakdown"/"Locked"/ "Firefighting "/"Overload"/"Emergency operation" etc;
Multimedia Play Function	Play a loop of videos (in MP4 format) / pictures (inPNG format) / music (in MP3 format) in the order of play list
Manual Setting Function	Push physical button to enter manual settings,such as vertical/horizontal,Chinese/English, LOGO, Words of welcome, load, persons,volume,date,time,address. Can be set flexibly as per customer's demands;
Information Display Function (showing or hiding optional)	Display Customer's LOGO, and LOGO can be changed by changing pictures;
	Display date, week, time, adjustable by setting in manual;
	Words of welcome show in static picture format, can be changed by upgrading pictures;
	Display load person quantity, choose mode by push button style manual, mode setting standard please refer to <TFT Product Load Setting Instructions>;
Interface Switch Function	Four interfaces: Vertical / Horizontal / Chinese / English, choose by manual setting;
Voice Announcer Function	Chinese language interface broadcasts bilingual floor info, for example: "1 楼到了, first floor";
	English language interface broadcasts bilingual floor info, for example: "First floor";
Background Music Play Function (Support to show or hide)	Beautiful music plays in loop, can be stoped by manual setting;
USB Upgrade Function	128M storage space, transfer documents/pictures through USB flash disk, and the U-flash can be removed after upgrading, easy to operate;

Power Supply & RS485 Signal Interface:

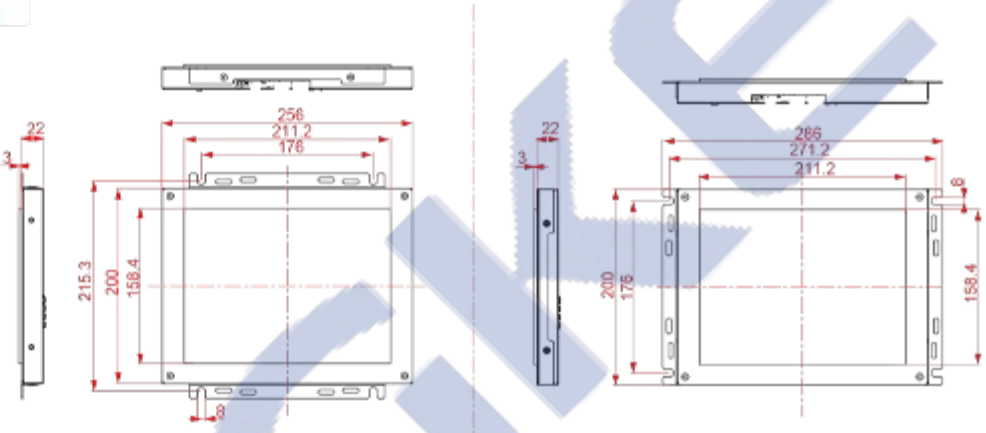
Connector identification	P2			SPEAKER2
connector type (see Appendix)	⑥			External speaker interface
function	MOD Bus & Power Supply Interface			
Pin definition	1	+24V	24V power supply	
	2	MOD+	MOD communication wire	
	3	MOD-	MOD communication wire	
	4	GND	Ground wire	

MCTC-HCB-M61A

MCTC-HCB-M61A series 10.4 inch TFT vedio display has function of playing multimedia vedio, its dynamic images are colorful, clear and fluent. It is suitable for showing advertisements, company profiles etc. It strengthens the sense of science and technology, makes the lift smarter. Moreover, it is easy for customers to set the playing of static pictures/ music/vedios.

10.4 inch Video Display





Model \ Description	display board	appearance and function
MCTC-HCB-M61AS	encrypted	the same as MCTC-HCB-M61A

Product feature and advantage:

- Match with COP, work as display in the car
- Videos/pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display



Horizontal Display

Main Technical Parameters:

Size	10.4 inch	Voltage/Current	24V/≤3000mA
RTC	Built-in	Loudspeaker	Built-in, 3.5mm interface reserved
Display Area (mm)	211.2*158.4	Resolution	1024*768
Brightness	350	Color Depth	RGB666 (64K)
Display Visual Angle	85-85-85-85	Working Environment	-20~70°C, 10~90%RH
Contrast Ratio	500:1	Storage Environment	-30~80°C, 10~90%RH

Function Descriptions:

Interface Display Function	Real-time display elevator running floor/direction status;
	Arrow can be static or dynamic , four rates of rolling speed adjustable;
Alarm Display Function	Real-time receiving signals from control panel, display "In maintenance" / "Breakdown"/"Locked"/ "Firefighting "/"Overload"/"Emergency operation" etc;
Multimedia Play Function	Play a loop of videos (in MP4 format) / pictures (inPNG format) / music (in MP3 format) in the order of play list
Manual Setting Function	Push physical button to enter manual settings,such as vertical/horizontal,Chinese/English, LOGO, Words of welcome, load, persons,volume,date,time,address. Can be set flexibly as per customer's demands;
Information Display Function (showing or hiding optional)	Display Customer's LOGO, and LOGO can be changed by changing pictures;
	Display date, week, time, adjustable by setting in manual;
	Words of welcome show in static picture format, can be changed by upgrading pictures;
	Display load person quantity, choose mode by push button style manual, mode setting standard please refer to <TFT Product Load Setting Instructions>;
Interface Switch Function	Four interfaces: Vertical / Horizontal / Chinese / English, choose by manual setting;
Voice Announcer Function	Chinese language interface broadcasts bilingual floor info, for example: "1 楼到了, first floor";
	English language interface broadcasts bilingual floor info, for example: "First floor";
Background Music Play Function (Support to show or hide)	Beautiful music plays in loop, can be stoped by manual setting;
USB Upgrade Function	128M storage space, transfer documents/pictures through USB flash disk, and the U-flash can be removed after upgrading, easy to operate;

Power Supply & RS485 Signal Interface:

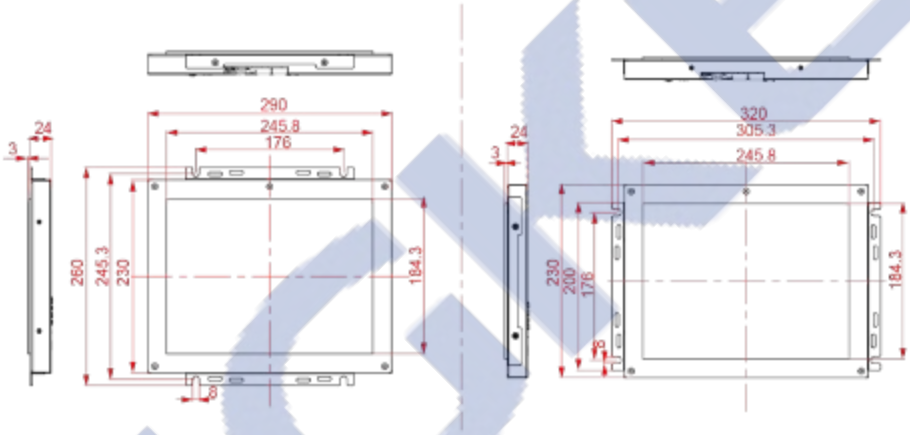
Connector identification	P2			SPEAKER2
connector type (see Appendix)	⑥			External speaker interface
function	MOD Bus & Power Supply Interface			
Pin definition	1	+24V	24V power supply	
	2	MOD+	MOD communication wire	
	3	MOD-	MOD communication wire	
	4	GND	Ground wire	

MCTC-HCB-M61B

MCTC-HCB-M61B series 12.1 inch TFT vedio display has function of playing multimedia vedio, its dynamic images are colorful, clear and fluent. It is suitable for showing advertisements, company profiles etc. It strengthens the sense of science and technology, makes the lift smarter. Moreover, it is easy for customers to set the playing of static pictures/ music/vedios.

12.1 inch Video Display





Model \ Description	display board	appearance and function
MCTC-HCB-M61BS	encrypted	the same as MCTC-HCB-M61B

Product feature and advantage:

- Match with COP, work as display in the car
- Videos/pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display



Horizontal Display

Main Technical Parameters:

Size	12.1 inch	Voltage/Current	24V/≤3000mA
RTC	Built-in	Loudspeaker	Built-in, 3.5mm interface reserved
Display Area (mm)	245.8*184.3	Resolution	1024*768
Brightness	350	Color Depth	RGB666 (64K)
Display Visual Angle	85-85-85-85	Working Environment	- 20~70°C, 10~90%RH
Contrast Ratio	500:1	Storage Environment	- 30~80°C, 10~90%RH

Function Descriptions:

Interface Display Function	Real-time display elevator running floor/direction status;
	Arrow can be static or dynamic , four rates of rolling speed adjustable;
Alarm Display Function	Real-time receiving signals from control panel, display "In maintenance" / "Breakdown"/"Locked"/ "Firefighting "/"Overload"/"Emergency operation" etc;
Multimedia Play Function	Play a loop of videos (in MP4 format) / pictures (inPNG format) / music (in MP3 format) in the order of play list
Manual Setting Function	Push physical button to enter manual settings,such as vertical/horizontal,Chinese/English, LOGO, Words of welcome, load, persons,volume,date,time,address. Can be set flexibly as per customer's demands;
Information Display Function (showing or hiding optional)	Display Customer's LOGO, and LOGO can be changed by changing pictures;
	Display date, week, time, adjustable by setting in manual;
	Words of welcome show in static picture format, can be changed by upgrading pictures;
	Display load person quantity, choose mode by push button style manual, mode setting standard please refer to <TFT Product Load Setting Instructions>;
Interface Switch Function	Four interfaces: Vertical / Horizontal / Chinese / English, choose by manual setting;
Voice Announcer Function	Chinese language interface broadcasts bilingual floor info, for example: "1 楼到了, first floor";
	English language interface broadcasts bilingual floor info, for example: "First floor";
Background Music Play Function (Support to show or hide)	Beautiful music plays in loop, can be stoped by manual setting;
USB Upgrade Function	128M storage space, transfer documents/pictures through USB flash disk, and the U-flash can be removed after upgrading, easy to operate;

Power Supply & RS485 Signal Interface:

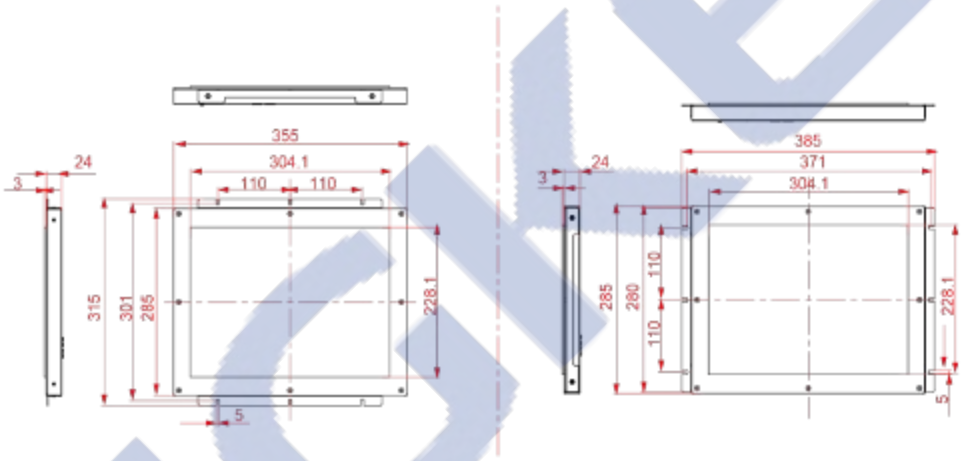
Connector identification	P2			SPEAKER2
connector type (see Appendix)	⑥			External speaker interface
function	MOD Bus & Power Supply Interface			
Pin definition	1	+24V	24V power supply	
	2	MOD+	MOD communication wire	
	3	MOD-	MOD communication wire	
	4	GND	Ground wire	

MCTC-HCB-M61C

MCTC-HCB-M61C series 15 inch TFT vedio display has function of playing multimedia vedio, its dynamic images are colorful, clear and fluent. It is suitable for showing advertisements, company profiles etc. It strengthens the sense of science and technology, makes the lift smarter. Moreover, it is easy for customers to set the playing of static pictures/ music/vedios.

15 inch Video Display





Model \ Description	display board	appearance and function
MCTC-HCB-M61CS	encrypted	the same as MCTC-HCB-M61C

Product feature and advantage:

- Match with COP, work as display in the car
- Videos/pictures/arrows/floor info/functions can be changed through TGUS upper computer software
- Passed rigorous tests of <TFT Products Reliability test standard> , Shanghai BST Electric Co.,ltd, performance is stable and reliable

UI Interface:



Vertical Display



Horizontal Display

Main Technical Parameters:

Size	15 inch	Voltage/Current	24V/≤3000mA
RTC	Built-in	Loudspeaker	Built-in, 3.5mm interface reserved
Display Area (mm)	304.1*228.1	Resolution	1024*768
Brightness	350	Color Depth	RGB666 (64K)
Display Visual Angle	85-85-85-85	Working Environment	- 20~70°C, 10~90%RH
Contrast Ratio	500:1	Storage Environment	- 30~80°C, 10~90%RH

Function Descriptions:

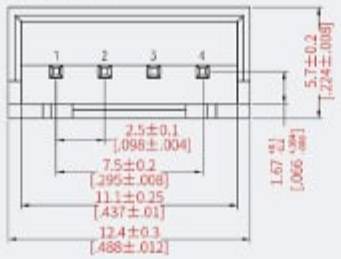
Interface Display Function	Real-time display elevator running floor/direction status;
	Arrow can be static or dynamic , four rates of rolling speed adjustable;
Alarm Display Function	Real-time receiving signals from control panel, display "In maintenance" / "Breakdown"/"Locked"/ "Firefighting "/"Overload"/"Emergency operation" etc;
Multimedia Play Function	Play a loop of videos (in MP4 format) / pictures (inPNG format) / music (in MP3 format) in the order of play list
Manual Setting Function	Push physical button to enter manual settings,such as vertical/horizontal,Chinese/English, LOGO, Words of welcome, load, persons,volume,date,time,address. Can be set flexibly as per customer's demands;
Information Display Function (showing or hiding optional)	Display Customer's LOGO, and LOGO can be changed by changing pictures;
	Display date, week, time, adjustable by setting in manual;
	Words of welcome show in static picture format, can be changed by upgrading pictures;
	Display load person quantity, choose mode by push button style manual, mode setting standard please refer to <TFT Product Load Setting Instructions>;
Interface Switch Function	Four interfaces: Vertical / Horizontal / Chinese / English, choose by manual setting;
Voice Announcer Function	Chinese language interface broadcasts bilingual floor info, for example: "1 楼到了, first floor";
	English language interface broadcasts bilingual floor info, for example: "First floor";
Background Music Play Function (Support to show or hide)	Beautiful music plays in loop, can be stoped by manual setting;
USB Upgrade Function	128M storage space, transfer documents/pictures through USB flash disk, and the U-flash can be removed after upgrading, easy to operate;

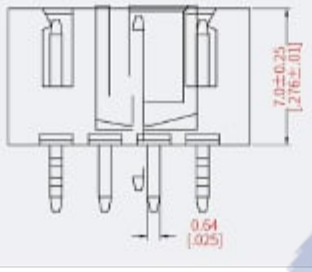
Power Supply & RS485 Signal Interface:

Connector identification	P2			SPEAKER2
connector type (see Appendix)	⑥			External speaker interface
function	MOD Bus & Power Supply Interface			
Pin definition	1	+24V	24V power supply	
	2	MOD+	MOD communication wire	
	3	MOD-	MOD communication wire	
	4	GND	Ground wire	

ANNEX 1 Terminal Type

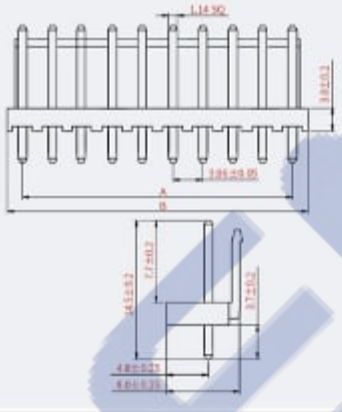
Terminal Type 1——XH-2.54



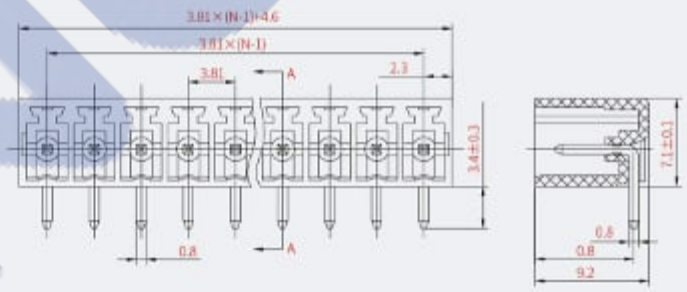




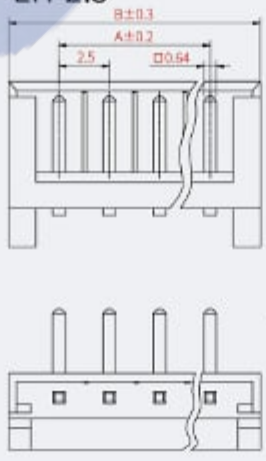
Terminal Type 2——VH-3.96

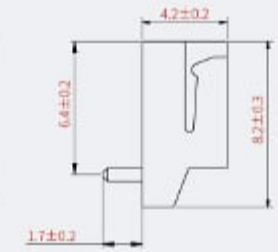


Terminal Type 3



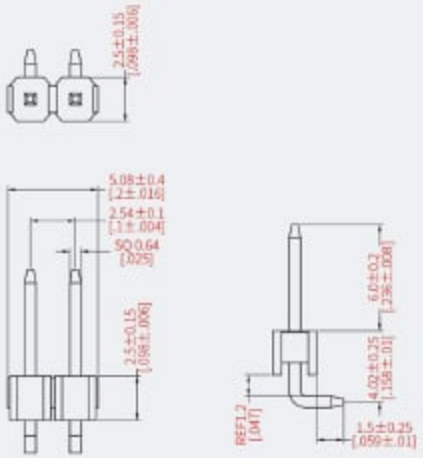
Terminal Type 4——EH-2.5



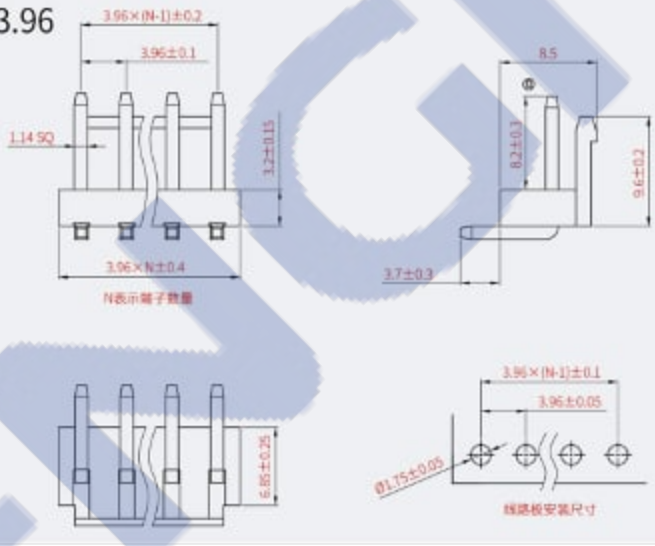




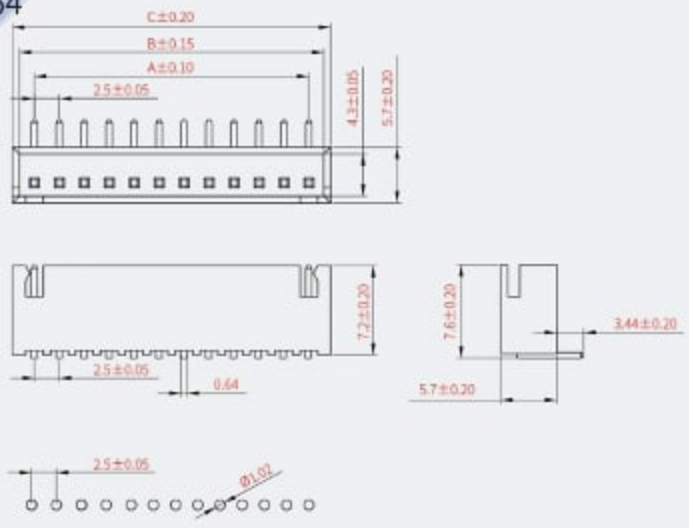
Terminal Type 5



Terminal Type 6——VH-3.96



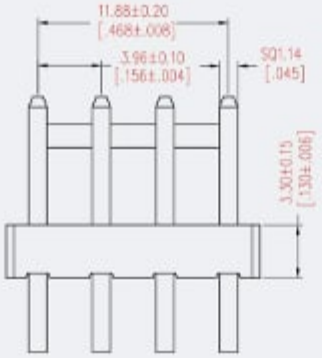
Terminal Type 7——XH-2.54

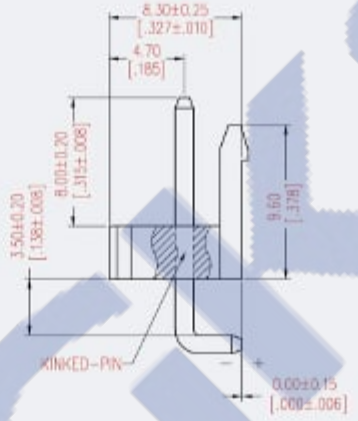


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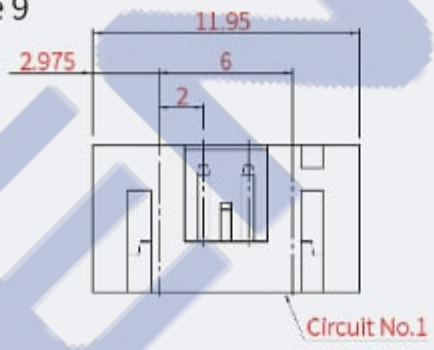
Terminal Type 8——VH-3.96



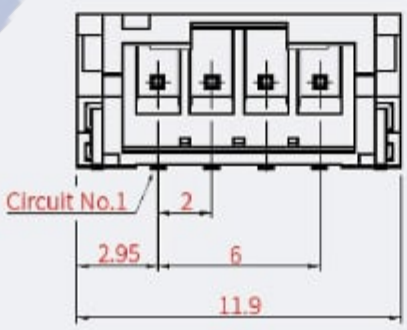


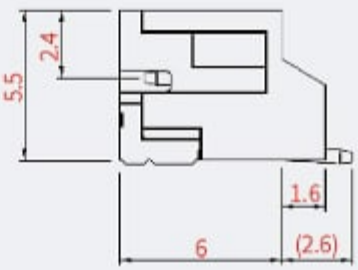


Terminal Type 9



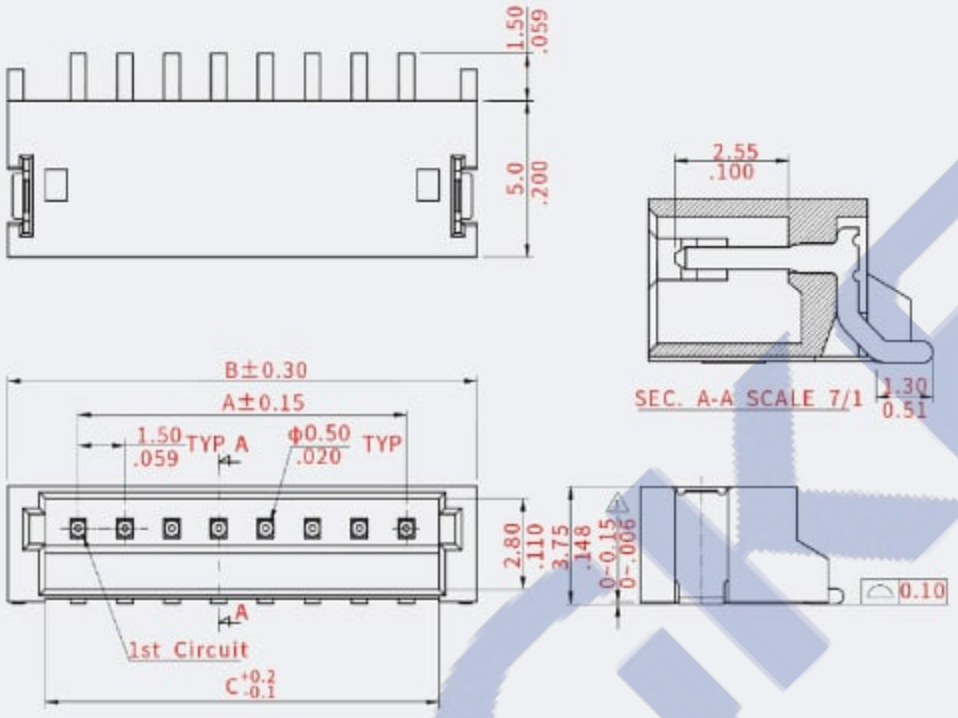




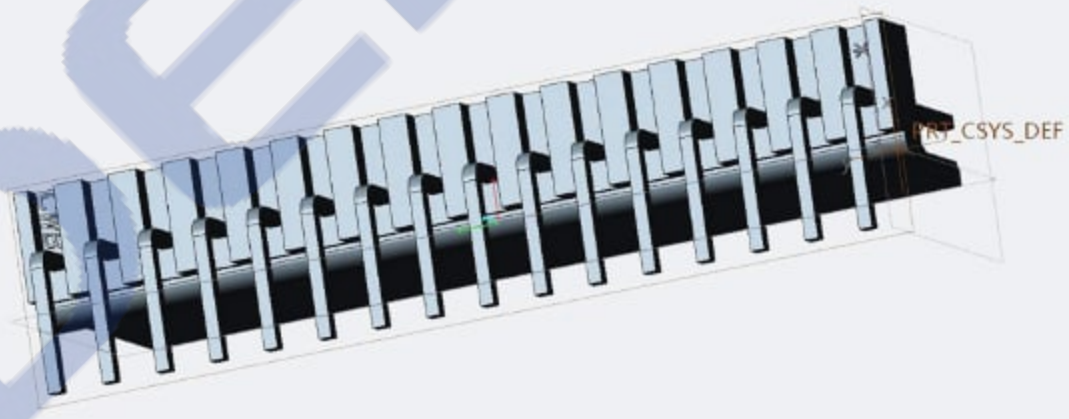


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Terminal Type 10——ZH-nAWB



Terminal Type 11——TJC2510-4AW



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ANNEX 2 Floor Address Setting

Solution 1: By Jumper

If the jumper is short-circuit, the up and down buttons on the LOP are changed as the button to add and reduce the floors. If the cap of jumper is taken away, the floor address will be stored; If the floor address is reached 56, and continuing pushing up button, the number will be returned to 0 and calculated again.

Solution 2: By Button

Pushing the S1 button, it will show the current stored floor numbers, and if pushing the S1 button again, the floor address will be added 1; if pushing the button 2s, the floor address will be added quickly; If the floor address is reached 56, and continuing pushing button, the floor address will be returned to 0 and calculated again.

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ANNEX 3 Types Stopped Selling

The below Types from MNK have been stopped selling, please be noted.

Types Stopped Selling	Substitution	Installation compatibility
MCTC-HCB-D5G/CD5/D5A (中文)	MCTC-HCB-D630	Installation compatibility
MCTC-HCB-D5G/CD5/D5A (英文)	MCTC-HCB-D634	Installation compatibility
MCTC-HCB-U1E/U1	MCTC-HCB-U673	U1E Compatibility/U1 Not Compatibility
MCTC-HCB-H/R1/R4	MCTC-HCB-R600	Not Compatibility
MCTC-HCB-V5G	MCTC-HCB-D631/D635	Not Compatibility
MCTC-HCB-V5A	MCTC-HCB-D631/D635	Not Compatibility
MCTC-HCB-T2	MCTC-HCB-T647	Installation compatibility
MCTC-HCB-T5	MCTC-HCB-T647	Installation compatibility
MCTC-HCB-M4	/	/

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ANNEX 4 Version Change Record

Date	Updated Version	Updated Info
Apr./2016	A00	1st Version Issued
Oct./2017	A01	Increased more new types: MCTC-HCB-U1E/U2E/U3E/U1T，MCTC-HCB-D5G/D6G/D7G/D9G Updated display area for below types: MCTC-HCB-D2，MCTC-HCB-U1，MCTC-HCB-U1B，MCTC-HCB-V1，MCTC-HCB-V2，MCTC-HCB-T1/T2/T5/T3/T6 Deleted the stopped selling types:
Apr./2018	A02	MCTC-HCB-SL updated to MCTC-HCB-SLA MCTC-HCB(S)-LW01 updated to MCTC-HCB(S)-LW01-BZ
Oct./2018	A03	Updated LOGO
Jul./2019	A04	Increased more new types: MCTC-HCB-V5G，MCTC-HCB-R600，MCTC-HCB-D630，MCTC-HCB-U673 Delete the stopped selling types: See Annex 3 Increase Graphic TFT: MCTC-DCB-T070，MCTC-DCB-T070A，MCTC-DCB-T080，MCTC-DCB-T097A，MCTC-DCB-T101 Increase Multimedia TFT: MCTC-DCB-08M/10M/12M/15M
Jul./2020	A05	Increase: MCTC-HCB-R602/R612 MCTC-HCB-U671/U672 MCTC-HCB-D631 Delete: MCTC-HCB-G1/G2 MCTC-HCB-V1/V2

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ANNEX 5 Naming Rule

Display naming rules

MCTC-HCB- □ □ □ □

①Series type	②Color	③Sub-type	④Encryption
R6:DOT-MATRIX D6:LED Segment U6:LCD Segment T6:TFT	LED: Segment: TFT:/	Size and Vertical/ Horizontal	Encryption:S Un-encryption:/

① Series type	LED Dot-matrix	R6	Display platform is combined with letter and number; 6 means the 6th platform. In the future, if the platform is changed, the letter and number can be changed together.
	LED Segment	D6	
	LCD Segment	U6	
	TFT	T6	
	Multimedia TFT	M6	
	Touch TFT	P6	

②Color	LED Dot-matrix	Color	Red	Orange	Yellow	White	Blue	Till now, only 5 colors; Others can be added in the future;
		Code	0	1	2	3	4	
	Segment (LED/LCD)	Background Color	Black background					Temporarily planning black, blue and white color 4 kinds of ground color, red, orange, yellow, white and black 5 kinds of font color, Other color can be added in the future
		Display Color	Red	Orange	Yellow/golden	White	Blue	
		Code	0	1	2	3	4	
		Background Color	Blue background					
		Display Color	Red	Orange	Yellow/golden	White	Black	
		Code	4	5	6	7	8	
		Background Color	white/Light background					
		Display Color	Red	Orange	Yellow/golden		Black	
		Code	9	A	B		C	
		Background Color	Color background					
		Display Color	Red	Orange	Yellow/golden	White	Black	
		Code	D	E	F	G	H	
	TFT	Screen Type	IPS			TN		
		Resolution Ratio	Low	High	1080P	Low	High	
		Code	0	1	2	3	4	

③ Sub-Type The model with the letter D above is the customized product to the	Size	4.3inch (terrace)	6.4inch	6.4inch	4.3inch(transit)	4.3inch	6.4inch	6.4inch	If there has no notes, the default is Chinese or Chinese and English
	Horizontal/Vertical	Vertical	Vertical/Chinese	Horizontal/ Chinese	Vertical	Vertical/English	Vertical/English	Horizontal/ English	
	Code	0	1	2	3	4	5	6	
	Size	7inch	8inch	9.7inch	10.4inch	12inch	15inch	18.5inch	
	Horizontal/Vertical	/	/	/	/	/	/	/	
	Code	7	8	9	A	B	C	D	

④ Encryption	Encryption	S
	Un-encryption	/

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Service and technical support APP

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