

T-QR-720-07/00

CT-852FP-E

(V1.1)

(CT1070)

Motherboard

PRODUCT SPECIFICATION MANUAL

HARDWARE FEATURE

SPECIFICATIONS		DESCRIPTION
CHIPSET	MAIN CHIP	North Bridge INTEL 852GM+ South bridge INTEL ICH4
	CPU	INTEL ULV CELERON-M 1.0GHz CPU
	GRAPHICS	INTEL 852GM
	SOUND	AC97, REALTEK ALC655
	NETWORK	REALTEK RT8100C
	IO	SMSC SCH3114
	CLOCK	ICS 950812CG
	COM	SMSC SCH3114
	POWER	SYSTEM POWER:INTERSIL ISL6232CAZA;CPU POWER:INTERSIL ISL6217
FUNCTION	IDE	2 IDE CONNECTOR,1 * 40 PIN+1* 44 PIN
	PCI	1 PC PCI SLOT
	DIMM	2 SO-DIMM,UPTO 1GB
	LAN	1 RJ45 PORT, 10M/100M AND 100M/1000M, SHARE LAY, SUPPORT PXE NON-DISC TO START
	VGA	1 VGA PORT,SUPPORT CRT AND TFT LCD
	LVDS	1 * 40 PIN CONNECTOR , BACK-LIGHT LAMP CONTROL
	USB	6 USB,USB 0 OR 1,3,4,5 ARE ON-BACK PORT, USB 0 OR 1,2 ARE ON-BOARD PINS, USB4,5,6 ARE ON-BACK PORT; USB1,2,3 ARE GENERAL USB PORT; USB4,5,6 ARE POWERED USB,USB4,5 SUPPORT 12V POWER, USB6 SUPPORT 24V POWER
	COM	4 COM,
	BUZZER	YES
	CF	YES. TYPE II, SHARE LINE WITH 44PIN, SETUP AS MASTER
POWER	12V AND 24V POWER SUPPLY, SUPPORT S1,S4,S5, SUPPORT DC-JACK & 1 * 4 PIN CONNECTOR	
POWER CONSUMPTION	ULV CELERON-M CPU MAX 20W;	
PCB SIZE	MINI ITX 170mm×170mm	
PCB LAYER	8 LAYER	
PCB COLOR	GREEN	
OPERATING TEMPERATURE	0 °C-60°C	
OPERATING SYSTEM	Win98/CE/2000/XP/Linux /etc os	

CPU	
CPU	INTEL ULV CELERON-M 1.0GHz
FCS	400MHz

CPU POWER SUPPLY	THE VOLTAGE AROUND 1.0V
CPU FAN	ULV CELERON-M CPU, DISPENSE WITH FAN
CHIPSET	
SUPPLIER	INTEL
NORTH BRIDGE	INTEL 852GM
SOUTH BRIDGE	ICH4
BIOS FLASH ROM	WINBOND 4MB Flash ROM

MEMORY		
MEMORY SLOT	SO-DIMM Socket	2n
MEMORY TYPE	DDR SDRAM 266	Yes
	DDR SDRAM 200	Yes
	ECC DIMMs support	No
	Register DIMMs	No
MEMORY CAPACITY	128MB/256MB/512MB	
MAXIMUM CAPACITY	1GB	
NOTICE	THE MEMORY SLOT MUST INSURE THAT IT IS CONVENIENT FOR PULLING OUT AND INSERTING THE MEMORY CARD	

PCB SPECIFICATION	
PCB SPECIFICATION	MINI ITX Form Factor
LAYER	8 LAYER
SIZE	170mm×170mm
COLOUR	GREEN
NOTICE	GREEN, THE COMMON COLOR FOR INDUSTRIAL CONTROL PCB

GRAPHICS		
DISPLAY CHIP	Mirage Graphics 2D/3D	
VGA GRAPHICS CHIP-CONTROLLER	Intel 852GM	
LVDS	Intel 852GM	
	LVDS 2*20 PIN LVDS CONNECTOR PIN DEFINITION : 1. VDDSAFE 3. GND 5. VDDSAFE 7. LVDS0_N0 9. LVDS0_P0 2. VDDSAFE 4. GND 6. VDDSAFE 8. LVDS1_N0 10. LVDS1_P0 11. GND 13. LVDS0_N1 15. LVDS0_P1 17. GND 19. LVDS0_N2- 12. GND 14. LVDS1_N1 16. LVDS1_P1 18. GND 20. LVDS1_N2 21. LVDS0_P2 23. GND 25. LVDS0_CLKN 27. LVDS0_CLKP 29. GND 22. LVDS1_P2 24. GND 26. LVDS1-/CLKN 28. LVDS1_CLKP 30. GND 31. LVDS_DDCCLK 33. GND 35. LVDS0_N3 37. LVDS0_P3 39. NC 32. LVDS_DDCPDATA 34. GND 36. LVDS1_N3 38. LVDS1_P3 40. LVDS_VCON	
	1 • 3• 5• 7• 9• 11• 13• 15• 17• 19• 21• 23• 25• 27• 29• 31• 33• 35• 37• 39• 2 • 4• 6• 8• 10• 12• 14• 16• 18• 20• 22• 24• 26• 28• 30• 32• 34• 36• 38• 40•	
MONOCHROME DISPLAY MODE	SUPPORT VGA/LVDS/TV/DVI	
DUAL DISPLAY	CRT+LVDS	WIN2000/XP SUPPORT REPLICATION SCREEN; WIN XP SUPPORT EXTENDED SCREEN
	Resolutions	Up to SXGA(1280*1024) @75MHz
	Frequency	From 25MHz to 112MHz

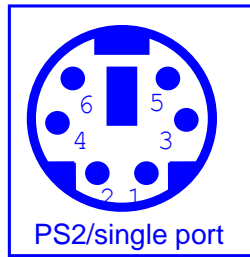
FUNCTION DESCRIPTION								
AUDIO	AUDIO CONTROLLER	ICH4						
	AUDIO CODEC	ALC655						
ON-BOARD AUDIO PIN		Pin: <table border="1" style="float: right; margin-left: 20px;"> <tr> <td>1•</td> <td>2•</td> </tr> <tr> <td>3•</td> <td>4•</td> </tr> <tr> <td>5•</td> <td>6•</td> </tr> </table> 1. Mic 2. GND 3. Line out _R 4. GND 5. Line out_L 6. GND	1•	2•	3•	4•	5•	6•
1•	2•							
3•	4•							
5•	6•							
COM	PLC BUS	SMSC SCH3114 ,SUPPORT COM1,2,3,4						
	DESCRIPTION	COM1,2,3,4 IS COM PORT OF RS232 WITH ALL SIGNAL; COM4 IS AN OPTIONAL COM PORT OF RS232/422/485 WITH ALL SIGNAL; RS232 AND RS422/485 SWITCHABLE BY JUMPPER; AUTOMATIC RECOGNITION IN RS422 AND RS485						

SIGNAL DEFINITION	PIN	<p>COM1, COM2 ALL SIGNAL RS232 2*5 PIN DEFINITION</p> <p>1. DCD 2. DSR 3. RXD 4. RTS 5. TXD 6. CTS 7. DTR 8. RI 9. GND 10. GND 11. DCD 12. DSR 13. RXD 14. RTS 15. TXD 16. CTS 17. DTR 18. RI 19. GND 20. GND</p> <p>COM3, COM4 RS232 & 422/485 2*7</p> <p>CONVERTION DEFINITION :</p> <p>1. DCD 2. DSR 3. RXD 4. RTS 5. TXD 6. CTS 7. DTR 8. RI 9. GND 10. GND 11. DCD 12. DSR 13. RXD 14. RTS 15. TXD 16. CTS 17. DTR 18. RI 19. GND 20. GND 21. TXD485+/422+ 22. TXD485-/422- 23. RX422+ 24. RX422-</p>	<p>1● 2● 3● 4● 5● 6● 7● 8● 9● 10● 11● 12● 13● 14● 15● 16● 17● 18● 19● 20●</p>	<p>1● 2● 3● 4● 5● 6● 7● 8● 9● 10● 11● 12● 13● 14● 15● 16● 17● 18● 19● 20● 21● 22● 23● 24●</p>													
		COM1,2,3	<p>RS232 2*5 PIN</p> <p>COM3 VOLTAGE SELECT TABLE :</p> <table border="1" data-bbox="560 1637 1118 1827"> <thead> <tr> <th>Selection</th> <th>1-2</th> <th>3-4</th> <th>5-6</th> </tr> </thead> <tbody> <tr> <td>RI</td> <td>ON</td> <td>OFF</td> <td>OFF</td> </tr> <tr> <td>5V</td> <td>OFF</td> <td>ON</td> <td>OFF</td> </tr> <tr> <td>12V</td> <td>OFF</td> <td>OFF</td> <td>ON</td> </tr> </tbody> </table> <p>1● 2● 3● 4● 5● 6●</p>	Selection	1-2	3-4	5-6	RI	ON	OFF	OFF	5V	OFF	ON	OFF	12V	OFF
Selection	1-2	3-4	5-6														
RI	ON	OFF	OFF														
5V	OFF	ON	OFF														
12V	OFF	OFF	ON														

COM4:		RS232 AND RS422/485 SWITCHABLE BY JUMPER AUTOMATIC RECOGNITION ON RS422/485	<table border="1"> <tr> <td>Selection</td> <td>1-2</td> <td>3-4</td> </tr> <tr> <td>RS232</td> <td>ON</td> <td>OFF</td> </tr> <tr> <td>RS422/485</td> <td>OFF</td> <td>ON</td> </tr> </table>	Selection	1-2	3-4	RS232	ON	OFF	RS422/485	OFF	ON	<table border="1"> <tr> <td>1● 2●</td> </tr> <tr> <td>3● 4●</td> </tr> </table>	1● 2●	3● 4●			
Selection	1-2	3-4																
RS232	ON	OFF																
RS422/485	OFF	ON																
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3● 4●																		
USB PORT	DESCRIPTION	SUPPORT 6 USB 2.0/1.1; USB 0 OR 1,3,4,5, BACK PANEL I/O PORT, USB2 IS ON-BOARD 1*5 PIN. USB4,5,3 PROVIDE 12V/24V POWER SUPPLY																
	PIN DEFINITION	2*5 PIN 2.0 USB PIN DEFINITION 1. VCC(+5V) 2. VCC(+5V) 3. P0- 4. P1- 5. P0+ 6. P1+ 7. GND 8. GND 9. NC(Cut) 10. GND 1*5 PIN USB PIN DEFINITION 1. VCC(+5V) 2. NC(cut) 3. DA- 4. DA+ 5. GND	<table border="1"> <tr> <td>1●</td> <td>2●</td> </tr> <tr> <td>3●</td> <td>4●</td> </tr> <tr> <td>5●</td> <td>6●</td> </tr> <tr> <td>7●</td> <td>8●</td> </tr> <tr> <td>9●</td> <td>10●</td> </tr> </table>	1●	2●	3●	4●	5●	6●	7●	8●	9●	10●	<table border="1"> <tr> <td>1●</td> </tr> <tr> <td>2●</td> </tr> <tr> <td>3●</td> </tr> <tr> <td>4●</td> </tr> <tr> <td>5●</td> </tr> </table>	1●	2●	3●	4●
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OUSB		1*2 DOUBLE- LAYER INTERFACE																
USB0/1		1 X 2*5 PIN																
USB4,5		2, PROVIDE 12V POWER SUPPLY																
USB3		1, PROVIDE 24V POWER SUPPLY																
USB2		1 X 1*5 PIN																
IDE AND CF	DESCRIPTION	2 X IDE (1*40 PIN+1* 44 PIN) CONNECTOR 1 X CF (CF TYPE II) CARD SLOT																
	COLOUR	IDE CONNECTOR IS BLACK, CF CARD SLOT IS WHITE																

	<p style="text-align: center;">40</p> <p style="text-align: center;">PIN</p> <p style="text-align: center;">IDE</p>	<p>PIN DEFINITION</p> <table border="0"> <tr><td>1 IDE_RST *</td><td>2 GND</td></tr> <tr><td>3 IDE_PDD7</td><td>4 IDE_PDD8</td></tr> <tr><td>5 IDE_PDD6</td><td>6 IDE_PDD9</td></tr> <tr><td>7 IDE_PDD5</td><td>8 IDE_PDD9</td></tr> <tr><td>9 IDE_PDD4</td><td>10 IDE_PDD 11</td></tr> <tr><td>11 IDE_PDD3</td><td>12 IDE_PDD 12</td></tr> <tr><td>13 IDE_PDD2</td><td>14 IDE_PDD 13</td></tr> <tr><td>15 IDE_PDD1</td><td>16 IDE_PDD 14</td></tr> <tr><td>17 IDE_PDD0</td><td>18 IDE_PDD 15</td></tr> <tr><td>19 GND</td><td>20 N/C</td></tr> <tr><td>21 IDE_PDDREQ</td><td>22 GND</td></tr> <tr><td>23 IDE_PDIOW*</td><td>24 GND</td></tr> <tr><td>25 IDE_PDIOR*</td><td>26 GND</td></tr> <tr><td>27 IDE_PIORDY</td><td>28 IDE_PCSEL</td></tr> <tr><td>29 IDE_PDDACK*</td><td>30 GND</td></tr> <tr><td>31 IDE_IRQ14</td><td>32 N/C</td></tr> <tr><td>33 IDE_PAD1</td><td>34 IDE_PATADET</td></tr> <tr><td>35 IDE_PAD0</td><td>36 IDE_PAD2</td></tr> <tr><td>37 IDE_PDCS1*</td><td>38 IDE_PDCS3*</td></tr> <tr><td>39 IDE_PDACTIVE*</td><td>40 GND</td></tr> </table>	1 IDE_RST *	2 GND	3 IDE_PDD7	4 IDE_PDD8	5 IDE_PDD6	6 IDE_PDD9	7 IDE_PDD5	8 IDE_PDD9	9 IDE_PDD4	10 IDE_PDD 11	11 IDE_PDD3	12 IDE_PDD 12	13 IDE_PDD2	14 IDE_PDD 13	15 IDE_PDD1	16 IDE_PDD 14	17 IDE_PDD0	18 IDE_PDD 15	19 GND	20 N/C	21 IDE_PDDREQ	22 GND	23 IDE_PDIOW*	24 GND	25 IDE_PDIOR*	26 GND	27 IDE_PIORDY	28 IDE_PCSEL	29 IDE_PDDACK*	30 GND	31 IDE_IRQ14	32 N/C	33 IDE_PAD1	34 IDE_PATADET	35 IDE_PAD0	36 IDE_PAD2	37 IDE_PDCS1*	38 IDE_PDCS3*	39 IDE_PDACTIVE*	40 GND	<table border="0"> <tr><td>1 • •2</td></tr> <tr><td>3 • •4</td></tr> <tr><td>• •</td></tr> <tr><td>• •</td></tr> <tr><td>• •</td></tr> <tr><td>• •</td></tr> <tr><td>• •</td></tr> <tr><td>• •</td></tr> <tr><td>• •</td></tr> <tr><td>• •</td></tr> <tr><td>19• •20</td></tr> </table>	1 • •2	3 • •4	• •	• •	• •	• •	• •	• •	• •	• •	19• •20											
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		PIN DEFINITION: 1 GND 2 IDE_SDD3 3 IDE_SDD4 4 IDE_SDD5 5 IDE_SDD6 6 IDE_SDD7 7 IDE_SDCS1* 8 GND 9 GND 10 GND 11 GND 12 GND 13 VCC 14 GND 15 GND 16 GND 17 GND 18 IDE_SDA2 19 IDE_SDA1 20 IDE_SDA0 21 IDE_SDD0 22 IDE_SDD1 23 IDE_SDD2 24 NC 25 GND 26 NC 27 IDE_SDD11 28 IDE_SDD12 29 IDE_SDD13 30 IDE_SDD14 31 IDE_SDD15 32 IDE_SDCS3* 33 NC 34 IDE_SDIOR* 35 IDE_SDIOW* 36 WE* 37 IDE_IRQ15 38 VCC 39 CSEL* 40 NC 41 IDE_RST* 42 IDE_SIORDY 43 NC 44 REG* 45 IDE_SDACTIVE* 46 IDE_SATASET 47 IDE_SDD8 48 IDE_SDD9 49 IDE_SDD10 50 GND	
	CF		
	NOTICE	BENEFIT FOR PULLING OUT THE CARD EASILY, WITH THE PLACKET OF CF-CARD SOCKET OUTWARD	
LAN	CHIP	REALTEK RTL8100C	
	DESCRIPTION	SUPPORT 10M/100M & 100M/1000M CO-LAY; SUPPORT REMOTE BOOT	
	PORT	RJ45	
KB/MS	PS/2	A TWO TRAILERS INTERFACE	



PS/2

1--KB DATA

5--KB CLK

2-MS DATA

6-MS CLK

3--GND

4--VCC

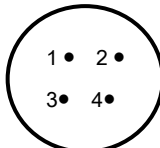
PCI SLOT

PCI PROTOCOL	SUPPORT PCI v2.3	Yes
	AWAKEN BOOT BY PHOTOELECTRIC SIGNAL	Yes
	PCI Bus FREQUENCY	33MHz
	PCI Data / Address Bus	32bit
PCI INTERFACE	MAIN PCI SLOT	1

BACKPLANE I/O PORT

COLOUR	PC2001 STANDARD	
PS/2	1, A TWO TRAILERS PS/2 PORT	
DB15 VGA Connector	1	
USB	2	
POWERUSB 12V	2	
POWERUSB 24V	1	
RJ45	1*RJ45	1 *100Mbps
DC JACK	1	

Front I/O or Button/LED											
FRONT USB	2										
Internal/Front Audio	1										
Front Panel (Front Button/LED)	<p>Pin Definition:</p> <ol style="list-style-type: none"> 1. PWBT+ 2. HDD LED+ 3. GND 4. HDD LED- 5. RESET_SW 6. Power LED 7. GND 8. Power LED 9. NC 10. GND <div style="border: 1px solid black; padding: 10px; display: inline-block; margin: 10px 0;"> <table style="border-collapse: collapse;"> <tr> <td style="text-align: center;">1 •</td> <td style="text-align: center;">2 •</td> </tr> <tr> <td style="text-align: center;">3 •</td> <td style="text-align: center;">4 •</td> </tr> <tr> <td style="text-align: center;">5 •</td> <td style="text-align: center;">6 •</td> </tr> <tr> <td style="text-align: center;">7 •</td> <td style="text-align: center;">8 •</td> </tr> <tr> <td style="text-align: center;">9 •</td> <td style="text-align: center;">10 •</td> </tr> </table> </div> <p>HDD Active LED: 2,4 Power Button: 1,3</p> <p>Power LED: 6,8,10 (6,8 OR 6,10 COMPOUND) Reset Button: 5,7</p>	1 •	2 •	3 •	4 •	5 •	6 •	7 •	8 •	9 •	10 •
1 •	2 •										
3 •	4 •										
5 •	6 •										
7 •	8 •										
9 •	10 •										

POWER SUPPLY					
DESCRIPTION	12V & 24V POWER SUPPLY, PROVIDE POWER FOR ADAPTER AND AT, ATX POWER SUPPLY, AND CUSTOMIZED POWER PANEL				
CHIP	SYSTEM POWER: INTERSIL ISL6232CAZA CPU POWER: INTERSIL ISL6218				
INTERFACE	DESCRIPTION	DC JACK, BOARD MOUNTED 2*2 PIN CONNECTOR DJ JACK FOR CONNECTION WITH POWER ADAPTER, 2*2 PIN CONNECTOR FOR CONNECTION WITH AT,ATX POWER SUPPLY OR CUSTOMIZED POWER PANEL			
	DC JACK	<p>4 PIN DC JACK DEFINITION:</p> <table style="width: 100%;"> <tr> <td>1. 24V POWER</td> <td>3. GND</td> </tr> <tr> <td>2. 12V POWER</td> <td>4. GND</td> </tr> </table> <div style="text-align: right; margin-top: 10px;">  </div>	1. 24V POWER	3. GND	2. 12V POWER
1. 24V POWER	3. GND				
2. 12V POWER	4. GND				

	4PIN CONNECTOR	WHITE 2*2 PIN CONNECTOR PORT 1. GND 2. GND 3. 12V 4. 24V	<table border="1"> <tr> <td>1●</td> <td>2●</td> </tr> <tr> <td>3●</td> <td>4●</td> </tr> </table>	1●	2●	3●	4●
1●	2●						
3●	4●						
ELECTROLYTIC CAPACITOR		JAPANESE CAPACITOR AND SOLID CAPACITOR					
JUMPER							
ELECTRICAL OUTLET OF FAN	CPU FAN	Number	1				
		Monitor Speed	Yes				
		Shutdown in suspend mode	No				
		Rotate Speed Control	On / Off				
	CHS FAN (SYS-FAN)	Number	1				
		Monitor Speed	Yes				
		Shutdown in suspend mode	No				
		Rotate Speed Control	On / Off				
	Pin: 1. FAN GND 2. FAN VCC 3. Speed Sense/NA						

BIOS FUNCTION			
SUPPLIER	Award BIOS		
EDITION	6.00PG		
SPECIFICATION	ACPI Spec	ACPI v2.0	
	APM Spec	APM v1.2	
	PnP Spec	PnP v1.0a	
	USB Spec	USB v2.0/1.1	
	SMBIOS	SMBIOS v2.3	
	WFM	WFM2.0	
INTRODUCTORY EQUIPMENT	Floppy	NO	
	LS120	Yes	
	IDE Hard Disk	Yes	
	IDE CDROM	Yes	
	SCSI Device (Hard Disk/CDROM)	Yes	
	ZIP	Yes	
	LAN	Yes	
	USB Floppy	Yes	
	USB Boot	Yes	
POWER MANAGEMENT	APM Mode	Yes	
	ACPI Mode	ACPI S0	Yes
		ACPI S1	Yes(Default)

		ACPI S2	No
		ACPI S3 (Suspend to RAM)	NO
		ACPI S4 (Suspend to Disk)	Yes (Depend on OS)
		ACPI S5 (Soft Off)	Yes
	Wake-Up Events	Wake-Up On LAN	Yes
		Wake-Up On Modem	Yes
		Wake-Up On Alarm	Yes
		USB Device Wake-Up	Yes

STANDARD AND PERMISSIVE SPECIFICATION	
Logo	PC99 or PC2001
PC99 color connectors	Yes
OS	Win98/CE/2000/XP/Linux /etc OS