

QUICK MANUAL

Kontron WINCE 5.00 image
for Microclient (ETX–VE)

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Revision History

ChangeLog			
Rev	Description	Date	Author
01	Initial Release	27.01.2006	HOstermeier

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1 Preface

The document described the Feature, Adjustment to develop a WINCE 5.00 Image for the Microclient with ETX-VE Modul

2 Features

- **On-Board Hardware Support**
 - o COM Ports
 - o USB port
 - o Ethernet connection
 - o VGA output,
 - o Flat panel interface
 - o CAN support (optional)
- **Storage Devices**
 - o Hard drives
 - o **Compactflash**
- **User Interface**
 - o PS/2 Mouse + PS/2 Keyboard
 - o USB Mouse + USB Keyboard
 - o Touchscreen (Hampshire)
- **Communication Services and Networking**
 - o Wired LAN 802.3
 - o Dial-up networking
 - o Web Server
 - o Active Sync
- **Application**
 - o **Internet Explorer 5.5 (kioskmode – iefull.exe)**
 - o **Wordpad**
 - o **Soft Keyboard**
 - o **Startup Applikationen**
 - o **Compact Framework Modul**
 - o **Remote Desktop**
- **Data store**
 - o **Hive-based registry (Persistent) -> Regsav.exe**
- **Languages**
 - o english, german

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2.1 Hardware

2.1.1 Microclient - adjustment COM1 to COM2

Serial Interface	Address	IRQ	Device
COM1	0x3F8	4	Active Sync
COM2	0x2F8	3	Touch

2.2 Image Size

Release: ca 24 MB -> Platform Builder

2.3 Multilingual User Interface

Description of implement the Multilingual User Interface with Languages German and English

2.3.1 Language Change

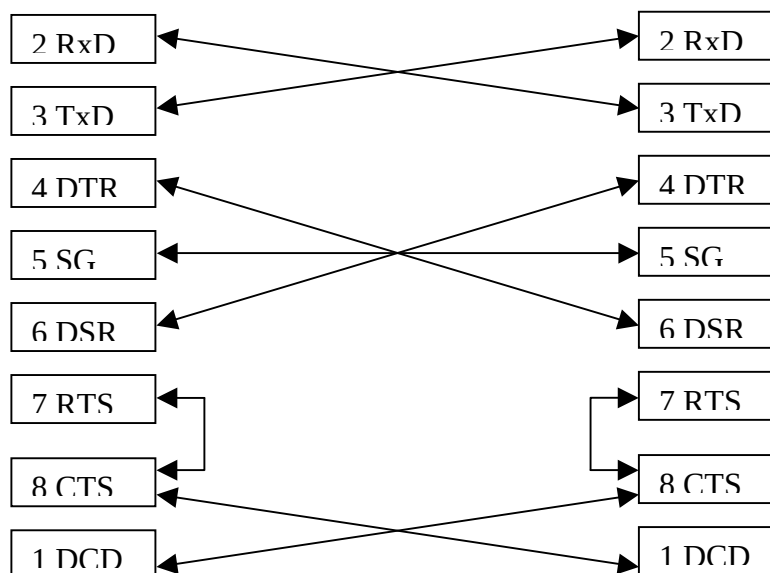
- 1) Boot System
- 2) Click **Start** -> **Settings** -> **Control panel**
- 3) double click **Regional Settings**
- 4) Change “User Interface Language” to German or English
- 5) Press OK
- 6) On Desktop launch “ **Regsave**” in order to save the settings
- 7) Reboot System in order to activate new languages

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3 ActiveSync Connection

- Connect target and development PC with null modem cable
- WinCE – Target -> launch Repllog.exe .
- Development PC -> launch Active Sync

3.1 Null modem Pin Connetion



4 Make a Network connections

Settings were saved persistent on CF by launch the regsave.exe (Hived based registry)

DK – double Click

4.1.1 Set static IP Address

- 1) Start -> Settings -> Network and Dial-up Connections
- 2) DK on PCI – Networkcard
- 3) click “ Specify an IP address “
- 4) set IP- Address
 - a. for example IP-address: 192.168.0.6, Subnet Mask : 255.255.255.0
- 5) click OK

4.1.2 map a folder on the connected PC

- 1) Start -> RUN click
- 2) Set CMD
- 3) net view <Computername>
- 4) set user name and password !!!
- 5) net use * [\\Remote name\Local name](#)

4.1.3 Place of the shared resource

- 1) Start -> Programs -> Windows Explorer
- 2) Click Network
- 3) -> shared folder

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5 Configuration for download the CE-Image

5.1 Preparation the storage-Device :

- 1) Make a boot DOS Disk (DOS6.22)
- 2) Copy Files and Subfolder under **ldisk1** on disk !!!
- 3) Boot with disk and launch start.bat (confirm with Y)
- 4) Copy **nk.bin** (CE-Image) to drive

5.2 BIOS Settings ETX-VE Modul (MOD9)

Note:

- The most important Settings are marked blue !!!!
- Settings after copy the CE-Images
- Press „F2,, Key as long as booting the BIOS-setup starts

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5.2.1 Main

PhoenixBIOS Setup Utility					
Main	Advanced	Security	Power	Boot	Exit
System Time			Xxxxxx		Item Specific help
System Date			Xxxxxx		
Legacy Diskette A:			[Disabled]		
Legacy Diskette B:			[Disabled]		
> Primary Master			[None]		
> Primary Slave			[None]		
> Secondary Master			[None]		
> Secondary Slave			[None]		
> Memory Shadow					
> Memory Cache					
System Memory			Xxxxx		
Extended Memory			Xxxxx		
BIOS Date			xxxx		
F1 Help	↑↓	: Select Item	-/+	Change Value	F9 Setup Defaults
Esc Exit		Select Menu	Enter	Select > Sub-Menu	F10 Save and Exit

5.2.1.1 Primary/Secondary Master/Slave

PhoenixBIOS Setup Utility	
Main	
Primary Master / Primary Slave	Item Specific help
Secondary Master / Secondary Slave	
Type [Auto] XXXXX Cylinders: [XXXX] Heads: [XXXX] Sectors: [XXXX] Maximum Capacity XXXXX XXXXX Total Sectors : XXXXX Maximum Capacity : XXXXX Multi-Sector Transfer : [Disabled] LBA Mode Control : [Enabled] 32 Bit I/O [Disabled] Transfer Mode : [Fast PIO 4] Ultra DMA Mode: [Disabled] SMART Monitoring : Disabled	
F1 Help ↑↓ : Select Item -/+ Change Value F9 Setup Defaults Esc Exit Select Menu Enter Select > Sub-Menu F10 Save and Exit	

5.2.1.1.1 Memory Shadow

PhoenixBIOS Setup Utility			
Main			
Memory Shadow		Item Specific help	
CC00 - CFFF		[Disabled]	
D000 – D3FF		[Disabled]	
D400 – D7FF		[Disabled]	
D800 - DBFF		[Disabled]	
DC00 - DFFF		[Disabled]	
F1 Help	↑↓	: Select Item	-/+ Change Value
Esc Exit		Select Menu	Enter Select > Sub-Menu
			F9 Setup Defaults
			F10 Save and Exit

5.2.1.1.2 Memory Cache

PhoenixBIOS Setup Utility			
Main			
Memory Cache		Item Specific help	
Memory Cache:		[Enabled]	
Cache Syste BIOS area:		[Write Protect]	
Cache Video BIOS area:		[Write Protect]	
Cache Extended Memory Area :		[Write Back]	
Cache D000 – D3FF:		[Disabled]	
Cache D400 – D7FF:		[Disabled]	
Cache D800 – DBFF:		[Disabled]	
Cache DC00 – DFFF:		[Disabled]	

F1	Help	↑↓	:	Select Item	-/+	Change Value	F9	Setup Defaults
Esc	Exit			Select Menu	Enter	Select > Sub-Menu	F10	Save and Exit

5.2.2 Advanced

PhoenixBIOS Setup Utility																			
Main	Advanced																		
Setup Warning Setting items on this menu to incorrect values may cause your system to malfunction > Advanced Chipset Control PNP OS installed: [No] Reset Configuration Data: [No] Secured Setup Configuration [Yes] > PCI Configuration PS/2 Mouse [Auto Detect] > Keyboard Features > I/O Device Configuration > Hardware Monitor Large Disk Access Mode : [DOS] Halt On Errors [Yes]	Item Specific help																		
<table border="0"> <tr> <td>F1</td> <td>Help</td> <td>↑↓</td> <td>:</td> <td>Select Item</td> <td>-/+</td> <td>Change Value</td> <td>F9</td> <td>Setup Defaults</td> </tr> <tr> <td>Esc</td> <td>Exit</td> <td></td> <td></td> <td>Select Menu</td> <td>Enter</td> <td>Select > Sub-Menu</td> <td>F10</td> <td>Save and Exit</td> </tr> </table>		F1	Help	↑↓	:	Select Item	-/+	Change Value	F9	Setup Defaults	Esc	Exit			Select Menu	Enter	Select > Sub-Menu	F10	Save and Exit
F1	Help	↑↓	:	Select Item	-/+	Change Value	F9	Setup Defaults											
Esc	Exit			Select Menu	Enter	Select > Sub-Menu	F10	Save and Exit											

5.2.2.1 Advanced Chipset Control

PhoenixBIOS Setup Utility	
Advanced	
Advanced Chipset Control	Item Specific help
PCI Delay Transaction: [Enabled] Aperture Size : [64M] Frame Buffer Size : [8 Mb] Enable memory gap : [Disabled] Spread Spectrum Modulation : [Disabled]	
F1 Help ↑↓ : Select Item -/+ Change Value F9 Setup Defaults Esc Exit Select Menu Enter Select > Sub-Menu F10 Save and Exit	

5.2.2.2 PCI Configuration

PhoenixBIOS Setup Utility	
Advanced	
PCI Configuration	Item Specific help
> PCI Device, Slot #1 > PCI Device, Slot #2 > PCI Device, Slot #3 > PCI Device, Slot #4 PCI IRQ line 1: [Auto Select] PCI IRQ line 2: [Auto Select] PCI IRQ line 3: [Auto Select] PCI IRQ line 4: [Auto Select] > PCI/PNP ISA UMB Region Exclusion > PCI/PNP ISA IRQ Resource Exclusion Default Primary Video Adapter [AGP] Assign IRQ to PCI VGA [Yes]	
F1 Help ↑↓ : Select Item -/+ Change Value F9 Setup Defaults Esc Exit Select Menu Enter Select > Sub-Menu F10 Save and Exit	

5.2.2.2.1 PCI Device, Slot #1 / #2 / #3 /#4

PhoenixBIOS Setup Utility			
Advanced			
PCI Device, Slot #1 / #2 / #3 / #4		Item Specific help	
Option ROM Scan:		[Enabled]	
Enable Master:		[Disabled]	
Latency Timer:		[0040h]	
F1 Help	↑↓	: Select Item	-/+ Change Value
Esc Exit		Select Menu	Enter Select > Sub-Menu
		F9	Setup Defaults
		F10	Save and Exit

5.2.2.2.2 PCI/PNP ISA UMB Region Exclusion

PhoenixBIOS Setup Utility			
Advanced			
PCI/PNP ISA UMB Region Exclusion		Item Specific help	
D000 – D3FF		[Available]	
D400 – D7FF		[Available]	
D800 – DBFF		[Available]	
DC00 – DFFF		[Available]	
F1 Help	↑↓	: Select Item	-/+ Change Value
Esc Exit		Select Menu	Enter Select > Sub-Menu
		F9	Setup Defaults
		F10	Save and Exit

5.2.2.2.3 PCI/PNP ISA IRQ Resource Exclusion

PhoenixBIOS Setup Utility			
Advanced			
PCI/PNP ISA IRQ Resource Exclusion		Item Specific help	
IRQ 3:	[Available]		
IRQ 4:	[Available]		
IRQ 5:	[Available]		
IRQ 7:	[Available]		
IRQ 9:	[Available]		
IRQ 10:	[Available]		
IRQ 11:	[Available]		
IRQ 12:	[Available]		
F1 Help	↑↓ : Select Item	-/+ Change Value	F9 Setup Defaults
Esc Exit	Select Menu	Enter Select > Sub-Menu	F10 Save and Exit

5.2.2.3 Keyboard Features

PhoenixBIOS Setup Utility	
Advanced	
Keyboard Features	Item Specific help
NumLock: [Auto] Key Click: [Disabled] Keyboard auto-repeat rate: [30/sec] Keyboard auto-repeat delay: [1/2 sec]	
F1 Help ↑↓ : Select Item -/+ Change Value F9 Setup Defaults Esc Exit Select Menu Enter Select > Sub-Menu F10 Save and Exit	

5.2.2.4 I/O Device Configuration

PhoenixBIOS Setup Utility	
Advanced	
I/O Device Configuration	Item Specific help
Local Bus IDE adapter: [Primary]	
Serial port A: [Enabled]	
Base I/O address [3F8]	
Interrupt: [IRQ 4]	
Serial port B: [Enabled]	
Mode: [Normal]	
Base I/O address [2F8]	
Interrupt: [IRQ 3]	
Onboard LPT: [Disabled]	
Base I/O address [378]	
Interrupt: [IRQ 7]	
Mode: [Bi-directional]	
Legacy USB Support: [Enabled]	
OnChip USB 2 Device: [Enabled]	
Onboard Legacy Audio: [Disabled]	
> Watchdog Settings	
F1 Help ↑↓ : Select Item -/+ Change Value F9 Setup Defaults Esc Exit Select Menu Enter Select > Sub-Menu F10 Save and Exit	

5.2.2.4.1 Watchdog Settings

PhoenixBIOS Setup Utility			
Advanced			
Watchdog Settings		Item Specific help	
Mode :		[Disabled]	
F1 Help	↑↓	: Select Item -/+ Change Value	F9 Setup Defaults
Esc Exit		Select Menu Enter Select > Sub-Menu	F10 Save and Exit

5.2.3 Security

PhoenixBIOS Setup Utility			
Main	Advanced	Security	Power Boot Exit
			Item Specific help
Supervisor Password Is:			Clear
User Password IS:			Clear
Set Supervisor Password			[Enter]
Set User Password			[Enter]
Diskette access:			[Supervisor]
Fixed disk boot sector:			[Normal]
Virus check reminder			[Disabled]
System backup reminder			[Disabled]
Password on boot:			[Disabled]
F1 Help	↑↓	: Select Item -/+ Change Value	F9 Setup Defaults
Esc Exit		Select Menu Enter Select > Sub-Menu	F10 Save and Exit

5.2.4 Power

PhoenixBIOS Setup Utility					
Main	Advanced	Security	Power	Boot	Exit
					Item Specific help
Power Savings					[Disabled]
Enable ACPI					[No]
> Wake Up Events					
Idle Mode:					[Off]
Standby Timeout :					[Off]
Auto Suspend Timeout:					[Off]
Hard Disk Timeout					[Disabled]
Video Timeout					[Disabled]
Resume On Modem Ring:					[Off]
Resume On Time:					[Off]
Resume Time:					[00:00:00]
F1 Help	↑↓	: Select Item	-/+	Change Value	F9 Setup Defaults
Esc Exit		Select Menu	Enter	Select > Sub-Menu	F10 Save and Exit

5.2.4.1 Wake Up Events

PhoenixBIOS Setup Utility			
Power			
Wake Up Events		Item Specific help	
IRQ 1:	[Enabled]		
IRQ 3:	[Disabled]		
IRQ 4:	[Disabled]		
IRQ 5:	[Disabled]		
IRQ 6:	[Disabled]		
IRQ 7:	[Disabled]		
IRQ 9:	[Disabled]		
IRQ 10:	[Disabled]		
IRQ 11:	[Disabled]		
IRQ 12:	[Enabled]		
IRQ 15:	[Disabled]		
F1 Help	↑↓	: Select Item	-/+ Change Value
Esc Exit		Select Menu	Enter Select > Sub-Menu
			F9 Setup Defaults
			F10 Save and Exit

5.2.5 Boot

PhoenixBIOS Setup Utility					
Main	Advanced	Security	Power	Boot	Exit
				Item Specific help	
Floppy check				[Disabled]	
Summary screen:				[Disabled]	
QuickBoot Mode:				[Enabled]	
Extended Memory Testing				[None]	
Dark Boot:				[Enabled]	
ATX AC Power On Mode				[Server]	
Power Supply:				[AT]	
Onboard LAN PXE ROM:				[Disabled]	
> Boot Device Priority					
> Display Control					
F1	Help	↑↓	:	Select Item	-/+ Change Value
F9	Setup Defaults				
Esc	Exit			Select Menu	Enter Select > Sub-Menu
F10	Save and Exit				

5.2.5.1 Boot Device Priority

PhoenixBIOS Setup Utility	
Boot	
Boot Device Priority	Item Specific help
Boot priority order: 1: USB KEY: 2: IDE 0: 3: IDE 1: 4: IDE 2: 5: IDE 3: 6: IDE CD: 7: USB CDROM: 8: Excluded from boot order: : USB FDC: : USB HDD: : USB ZIP: : USB LS120: : PCI BEV: : PCI SCSI: : Bootable Add-in Cards : Legacy Network Card	
F1 Help ↑↓ : Select Item -/+ Change Value F9 Setup Defaults Esc Exit Select Menu Enter Select > Sub-Menu F10 Save and Exit	

5.2.5.2 Display Control

PhoenixBIOS Setup Utility			
Boot			
Display Control		Item Specific help	
Display Mode: [CRT+LCD] JDA Revision: 1.9 TC Type: [PAL] Flat Panel Type: [SVGA] LCD Backlight: [128]			
F1 Help	↑↓	: Select Item -/+ Change Value	F9 Setup Defaults
Esc Exit		Select Menu Enter Select > Sub-Menu	F10 Save and Exit

6 Change Display Resolution (TFT)

By different TFT display size the settings must be changed in the BIOS setup and in the autoexec.bat in order to get a correct resolution on the TFT .

6.1 ControlPanel.EXE - Tool

The ControlPanel.Exe tool is a CE program with you can change the display resolution and The Touchcontroller connection .

Path on CE target: \Hard Disk \App

Settings:

Registry Save :	Registry of the CE target is saved on the CF
Resolution 640x480	Change the display resolution to 640x480 pixel
Resolution 800x600	Change the display resolution to 800x640 pixel
Resolution 1024x768	Change the display resolution to 1024x768 pixel
Version	Version of the ControlPanel.Exe tool
Touch COM1	access to the touchcontroller over COM1
Touch COM2	access to the touchcontroller over COM2
Touch COM3	access to the touchcontroller over COM3
Touch COM4	access to the touchcontroller over COM4

Example: Change the Resolution to 800x600

Press the "Resolution 800x600" button !

Press the "Registry Save" the changes will be saved on the CF

Enjoy !!

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7 Registry

There is a hived based registry for the persistent Registry in the WINCE Image. The Registry with the User Settings is saved on the Storage device!

7.1 Regsave.exe

Launch this File the Registry changes were saved on the Storage Device. Do you not launch regsave.exe after make settings the changes will be lost if you make a reboot.

7.2 Registry folder

The registry saved under following path

C:\Registry\System.hv
C:\Registry\User.mky
C:\Registry\User\User.hv

7.3 FAQ

Problem: System boots not correct after a faulty registry !!!

- 1) Press F5-Key according booting
- 2) Launch Cleanreg.bat -> Registry is deleted !!1
- 3) Reboot
- 4) The Registry with the original settings were saved on the storage device !!!
Note: preceding settings were lost

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8 Touch calibration

If the touchpoints don't the same as the mouse arrow you must calibrate the touch !

- 1) DK „**hcecal**“ on the WINCE Desktop
- 2) Make Calibration
- 3) DK „**regsave**“ on the WINCE Desktop in order to save the value on the storage device
- 4) DK X (right above) close the Regsave window

9 Autostart applications

Through a entry in the startup.bat you can autostart applications after booting

Path:

C:\Startup\startup.bat

9.1 Startup.bat

```
echo off
REM ROI Computer AG    6.5.2003  HOs
REM
REM Batchfile for Autostart files after booting
REM which is not build in the image
REM
REM strategy:
REM 1) Make a directory on the HDD
REM 2) Copy the files in the directory
REM 3) Make a entry in the startup.bat, to start the Application automatically
REM
REM Example: start \"Hard Disk\"App\App1.exe
REM
REM .....
REM .....
REM .....
```

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10 Compact Framework 1.0

In the Image would implemented the Compact Framework Version [1.0.2268.00]

The currently Compact Framework Version could be downloaded on the following Link
<http://www.microsoft.com/downloads/details.aspx?familyid=1f62a2a3-7282-4ba9-b26b-2267e972501d&displaylang=en>

Please note the installing instruction on the Website !!

Remark:

If you update the Compact Framework with the new Version, after reboot the update was lost!

10.1 Compact Framework update persistent install !

The update files were copy in the \windows folder, but this folder is dynamically .
 After reboot the update files were lost.

- 1) Compact Framework update install (netcf.all.wce.x86.cab)
- 2) Following files on **\\WINDOWS** copy to folder : **\\Hard Disk\\cf**

Dateiname	Größe	Typ ▲
cgacutil.exe	7 KB	Anwendung
calendar_1_0.nlp	7 KB	NLP-Datei
charinfo_1_0.nlp	12 KB	NLP-Datei
culture1_1_0.nlp	66 KB	NLP-Datei
culture2_1_0.nlp	8 KB	NLP-Datei
culture3_1_0.nlp	29 KB	NLP-Datei
region_1_0.nlp	8 KB	NLP-Datei
CFQuery3i386.dll	4 KB	Programmbibliothek
CFQueryi386.dll	3 KB	Programmbibliothek
GAC_mscorlib_v1_0_5000_0_cneutral_1.dll	384 KB	Programmbibliothek
GAC_System.Drawing_v1_0_5000_0_cneutral_1.dll	38 KB	Programmbibliothek
GAC_System.Windows.Forms.DataGrid_v1_0_5000_0_cneutral_1.dll	38 KB	Programmbibliothek
GAC_System.Xml_v1_0_5000_0_cneutral_1.dll	198 KB	Programmbibliothek
GAC_System_v1_0_5000_0_cneutral_1.dll	250 KB	Programmbibliothek
mscorlib.dll	10 KB	Programmbibliothek
mscorlib_1_0.dll	306 KB	Programmbibliothek
netcfagl1_0.dll	98 KB	Programmbibliothek
netcf1_0license.txt	1 KB	Textdatei

- 3) Unter \\Hard Disk\\Startup\\startup.bat include following line

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copy \Hard Disk\cf*. * \Windows

➔ After all reboot the Compact framework was updated !!

10.2 Check the currently Compact Framework version

With the tool in \windows\cgacutil.exe the Compact Framework Version could be checked

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11 FAQ

11.1 Baud rate in Cantest, CANDotNetTest Demo Tool

- In the CanTest.exe and CANDotNetTest Tool the Baudrate is set to 1 Mbaud !!!!

11.2 Flat Panel Switch On/Off after a period of time

If there no activity after a period of time the Flatpanel will be switch off !!

If any event occur (for example: touch press) the flatpanel will be switch on immediately !

11.2.1 Setting the User Idle time

- 1) press Start -> Settings -> Control Panel -> Power -> "Schemes"
- 2) Setting the "Switch state to User Idle" (Default: After 1 minute)

These means after 1 minute of no user activity the FP will be switch off !

BTW: By "Switch state to User Idle" : Never the Flatpanel will be not switch off!

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