

Windows CE mitePC-LCD

Vlastnosti WCE50,

kteře jsou nebo mohou být implementované v mitePC-LCD64 jsou uvedené níže. Obdobné vlastnosti jsou obsažené i ve WCE50, kteřý je určen pro jiné verze mitePC-LCD.

Ovladače

Ovladač	Popis	Poznámka
FFUART	FFUART supports the full RS232 specification with all 9 signals.	
BTUART	BTUART only supports RXD/TXD/CTS/RTS	
IRDA	Handles the PXA270's IrDA port	
Ethernet	10/100Mbit driver for Davicom DM9000	
USB Host	2 Ports supporting mass storage devices (USB-stick, hard disc, CD-ROM...) and other devices as keyboard, mouse, USB hub...	
USB Client	Can be used as ActiveSync connection, mass storage or RNDIS	
Audio	16Bit stereo output (up to 48kHz), mic input, line-In	
Touch Screen	All 4-wire resistive screens supported	
Display	All types of displays supported. Easy configuration in registry	
PS2 Mouse	Supports any standard PS/2 mouse	
PS2 Keyboard	Supports any standard PS/2 keyboard	
Compact Flash	Memory cards, Wireless LAN, modem, Bluetooth, serial card, GPS, GSM, ...	
SD/MMC	Memory cards, Wireless LAN, Bluetooth, GSM, GPS ...	
Wireless LAN	Support for Pretec's CompactWLAN (CF) and Socket's E300(SDIO) card	
Flash File System	Standard FAT as well as TFAT (transaction safe FAT) are supported	
Matrix Keypad	Fully customizable through registry (MK_IN, MK_OUT and scan code to virtual key)	*)
External UART	Support for external 16550-compatible UARTs that are attached to the system bus (up to 8 ports)	*)

Windows CE služby

Služba	Popis	Poznámka
FTP Server	Access using the FTP File Transfer Protocol	
HTTP Server	Allows to act as a web server	
Time Server / Client	Synchronize time with the network using the NTP protocol	
File Server	File sharing over the network using the SMB protocol	
OBEX Server	Protocol for IrDA File Transfer	
Telnet Server	Access using the Telnet protocol	
Mail Server	SMTP, POP3 and mail sender services	*)
Web Shop	Shopping cart, product selector, mail order form	*)

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Speciální vlastnosti WCE50

Vlastnost	Popis	Poznámka
Bootloader	Configuration through RS232, clear flash registry, download image to RAM, download image to Flash, set/save config structures, define initial GPIO configuration. Debug Functionality: erases flash range, write/read 32bit value at address.	
Splash Screen	Display default start-up screen while Windows CE is booting.	
AutoStart	Automatically execute programs upon system boot or upon removable media insertion	
AutoCopy	Automatically copy files to the RAM file system upon system boot or upon removable media insertion. This, for example, can be used to add items to the Windows CE START menu button.	
GPIO Interrupts	Each GPIO can be configured to act as an interrupt source	
Update Tool	Save registry to flash, clear registry on flash, update Windows CE image, show BSP revision, warm reboot, cold reboot	
GPIOConfig	Configure input/output/alternate function of each GPIO at startup	
Tweak	Display and adjust system parameters as CPU clock, bus clock, core voltage, sleep modes, flash timings, SDRAM/DRAM timings, PCMCIA timings. Change serial number and flash layout. Configure display settings on the fly.	
AC97 Tweak	Audio input settings: source left/right, micboost, gain left/right, DC filter, High pass, mute. Audio output settings: gain left/right, bass, treble, de-emphasis, headphone driver, mute. Audio test features	
Mohou být též objednány následující speciální vlastnosti.		
CibrCustomize	Automatically configure the registry for your own settings (Using .reg file).	*)
.Net Framework 2.0 Flash Installer	Install the .Net Compact Framework 2.0 to the flash memory	*)
Internet Explorer Flash Installer	Install the Microsoft Internet Explorer to the flash memory	*)
Multilanguage Support	Add additional languages to your system (can be switched at runtime)	*)
SplashScreen Customizer	Show your own screen while Windows CE is booting	*)
Pro připojení mitePC-LCD64 k systému WXPE nabízíme pro WXPE tuto podporu.		
Cibr Loader	Load bootloader over JTAG, load Images over JTAG , Ethernet, RS232	
Remote Display	Control module by a desktop PC (keyboard, mouse, display, file transfer) using a connection through ActiveSync (USB) or Ethernet.	
Při požadavku na zmenšení objemu WCE50 nabízíme kompresní nástroj.		
Win CE Image Compressor	Reduce the size of the Windows CE Image to about 50%. This leaves more flash space for user applications or the flash file system	*)

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Příklady zdrojových textů

Uvedené příklady jsou ready-to-use projekty pro Embedded Visual C++.

Příklady / Knihovny	Popis	Vyžadovaná knihovna	Poznámka
Hardware Register Access	Simple direct hardware register access (GPIO register access is shown as an example)	-	*)
Interrupts	Simple interrupt handling (GPIO interrupt is shown as an example)	-	*)
GPIOlib	Basic functions for accessing GPIO (Set/GetGPIOLevel, Set/GetGPIODir, Set/GetGPIOAltFn, and some more)	-	*)
PWM / DA – Converter	Use the PXA's integrated PWM unit. The PWM signal can be used for example as a simple digital-to-analog converter	GPIOlib	*)
AC97 / AD-Converter	Communicate with the audio codec and use the four analog-to-digital channels.	GPIOlib	*)
I2C	Transfer data through the the I2C unit	-	*)
Advanced Interrupt	Use an installable Interrupt Service Routine (ISR) and fast interrupt handling (FIQ)	-	*)
SPI	Configure the SSP unit to be used as a standard SPI interface	GPIOlib	*)
Advanced SPI	Configure the SSP unit to be used as a standard SPI interface. (Faster version featuring interrupt handling)	GPIOlib	*)
CAN	Transmit and receive CAN packets with the SJA1000 CAN controller as it is implemented on the Evaluation Board	-	*)
RTC synchronization	Automatically synchronize the system time to an external RTC	I2C	*)

Popis jednotlivých položek čerpá z technické dokumentace a originálních popisů fy Microsoft, proto nejsou překládány.

Všechny položky nejsou v některých konfiguracích mitePC-LCD možné, resp. vyžadují dodatečný HW a některé nejsou zdarma. Konkrétní vlastnosti vytvářeného systému Windows CE je třeba konzultovat.

*) Položky u mitePC-LCD64 výhradně za úplaty.

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