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## Book Descriptions:

# 946gz7ma 8krs2h manual

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Operation is subject to the following two conditions 1 this device may not cause harmful interference, and 2 this device must accept any interference received, including interference that may cause undesired operation. Tested to comply with FCC standards. Failure to switch off the DC power supply may result in serious damage to your system or memory module. Attention We cannot guarantee that your system will operate normally while overclocked. Normal operation depends on the overclock capacity of your device. Attention Attention Since BIOS programs are upgraded from time to time, the BIOS description in this manual is just for reference. We do not guarantee that the content of this manual will remain consistent with the actual BIOS version at any given time in the future. Attention The pictures of objects used in this manual are just for your reference. Please refer to the physical motherboard. It indicates the functions that the motherboard has. This series of motherboard is one of our new products, and offers superior performance,

reliability and quality, at a reasonable price. IDE Connector PIDE 18. 24pin ATX Power Connector PWR1 19. SPI Connector optional 11. The Microphone jack is used to connect to the microphone. Caution should be exercised during the installation of these modules. Please refer to the motherboard layout prior to any installation and read the contents in this chapter carefully. For the detailed CPU support list on this motherboard, please visit the website Installation of CPU Below is the CPU socket illustration. Follow these procedures to install a CPU. Load lever Load plate Protective cover 1. Use thumb and forefinger to hold the hook of the load lever and pull the lever down and away from socket to unlock it. Lift the load lever. 2. Push down the rear tab with your forefinger to bring the front end of the load plate up slightly. Open the load plate with thumb. Be careful not to touch the contacts. Ensure fingers align to socket cutouts.

Match the CPU triangle marker to Pin 1 position as shown below. The alignment key also provides the orientation directed function. Lower the CPU straight down without tilting or sliding the CPU in the socket. 4. After installing the CPU, remove the protective cover from load plate. The protective cover is used to protect the contacts of the socket. Do not discard the protective cover. Always replace the socket cover if the CPU is removed from the socket. Therefore, you should install CPU cooling fan and make sure that the cooling fan works normally at all times in order to prevent overheating and damaging to the CPU. Please refer to your CPU fan user guide to install it properly. 5. Close the load plate, and slightly push down the tongue side. 6. Lower the lever and lock it to the load plate, then the CPU is locked completely. Installation of DDR2 Memory 1. There is only one gap near the center of the DIMM slot, and the memory module can be fixed in one direction only. In order to avoid damaging any devices, make sure that they have been installed properly prior to connecting the power supply. 24pin ATX Power connector PWR1 PWR1 is the ATX power supply connector. Make sure that the power supply cable and pins are properly aligned with the connector on the motherboard. Connect the cables blue connector to the IDE connector, then connect the gray connector to the slave device hard disk drive and the black connector to the Ultra ATA master device. Front Panel Connector FP1 This motherboard includes one connector for connecting the front panel switch and LED indicators. HDD LED Connector HDLED The connector connects to the cases HDD indicator LED indicating the activity status of hard disks. Reset Switch RESET Attach the connector to the Reset switch on the front panel of the case; the system will restart when the switch is pressed. Power LED Connector PWRLED Attach the connector to the power LED on the front panel of the case. The Power LED indicates the systems status.

<http://gbb.global/blog/3pm-futaba-manual>

When the system is in S0 status, the LED is on. When the system is in S1 status, the LED is blink; When the system is in S3, S4, S5 status, the LED is off. Power Switch Connector PWRSW Attach the connector to the power button of the case. These fans will be automatically turned off after the system enters S3, S4 and S5 mode. These connectors support the thin Serial ATA II cables for primary storage devices. The system can detect the chassis intrusion through the status of this connector. If the connector has been closed once, the system will send a message. To utilize this function, set Case Open Warning to Enabled in the PC Health Status section of the CMOS Setup. Save and exit, then boot the operating system once to make sure this function takes effect. IrDA Connector IR This header supports wireless transmitting and receiving device. Before using this function, configure the settings of IR Mode from the Integrated Peripherals. Connect one side of a cable to the connector, then attach the BIOS Flash Card to the other side of the cable. LPC Connector J1 optional This motherboard provides a LPC connector, which is used to flash the LPC BIOS. Connect one side of a cable to the connector, then attach the BIOS Flash Card to the other side of the cable. PCI Slots The expansion cards can be installed in the two PCI slots. PCI slots support cards such as a LAN card, USB card, SCSI card and other cards that comply with PCI specifications. PCI Express Slots PCI Express will offer the following design advantages over the PCI and AGP interface Compatible with

existing PCI driver and software and Operating Systems. High Bandwidth per Pin. PCI Express will take two forms, x16 PCI Express slot and x1 PCI Express slot. If a performance graphics card was installed into x16 PCI Express slot, 20 pin power supply was strongly recommended. This section explains how to use the various functions of this motherboard by changing the jumper settings.

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Users should read the following content carefully prior to modifying any jumper settings. Description of Jumpers 1. For the jumpers on this motherboard, pin 1 can be identified by the silkscreen printed next to it. However, in this manual, pin 1 is simply labeled as 1. 2. The following table provides some explanation of the jumper pin settings. User should refer to this when adjusting jumper settings. The CMOS can be cleared by removing the CMOS jumper. How to clear CMOS 1. Turn off the AC power supply and connect pins 1 and 2 together using the jumper cap. 2. Return the jumper setting to normal pins 2 and 3 together with the jumper cap. 3. Turn the AC power supply back on. You will have no such worry when using the BIOS TBL function, which is used to protect BIOS Top Boot Block. By using this function, the system still can boot even if the flash BIOS fails and show some information to recover the BIOS. To utilize this function, you just leave this jumper as short pin 2 and 3 with the jumper cap. Detailed descriptions of the BIOS parameters are also provided. You have to run the Setup Program when the following cases occur 1. An error message appears on the screen during the system POST process. 2. You want to change the default CMOS settings. Power on the computer, when the following message briefly appears at the bottom of the screen during the POST Power On Self Test, press key to enter the Award BIOS CMOS Setup Utility. Press TAB to show POST Screen, DEL to enter SETUP. Main Menu The main menu allows you to select from the list of setup functions and two exit choices. Use the arrow keys to select among the items and press to accept or go to the submenu. The items in the main menu are explained as below Standard CMOS Features The basic system configuration can be set up through this menu. FOX Central Control Unit The special features can be set up through this menu.

<http://www.atlantarepairtv.com/images/briggs-stratton-sprint-375-manual-download.pdf>

Main Menu Note We do not suggest that you change the default parameters in the BIOS Setup, and we shall not be responsible for any damage that results from any changes that you make. Advanced Chipset Features The values for the chipset can be changed through this menu, and the system performance can be optimized. Integrated Peripherals All onboard peripherals can be set up through this menu. Power Management Setup All the items of Green function features can be set up through this menu. PC Health Status This will display the current status of your PC. Load Fail-Safe Defaults The default BIOS settings can be loaded through this menu. Load Optimized Defaults The optimal performance settings can be loaded through this menu, however, the stable default values may be affected. Set Supervisor Password The supervisor password can be set up through this menu. Set User Password The user password can be set up through this menu. Exit Without Saving Abandon all CMOS value changes and exit setup. Use the arrow keys select the item to set up, and then use the or keys to choose the setting values. Date This option allows you to set the desired date usually as the current day with the format. Day weekday from Sun. to Sat., defined by BIOS read only. Month month from Jan. to Dec. Date date from 1st to 31st, can be changed using the keyboard. Year year, set up by users. Time This option allows you to set up the desired time usually as the current time with format. There are three choices provided for the Enhanced IDE BIOS None, Auto, and Manual. None means no HDD is installed or set; Auto means the system can auto detect the hard disk when booting up; by choosing Manual and changing Access Mode to CHS, the related information should be entered manually. All Errors Whenever the BIOS detects a nonfatal error, the system will stop and you will be prompted. No Errors The system boot will not stop for any errors that may be detected.

All, But Keyboard The system boot will not stop for a keyboard error; but it will stop for all other errors. All, But Diskette The system boot will not stop for a diskette error; but it will stop for all other errors. Memory This is a DisplayOnly Category, showing the capacity of your installed memory. Using different CPU, the setting values are different. vFOX Intelligent Stepping User can select different overclocking option by this item. The available setting values are Manual, Auto, Power gaming, Data Mining, Office, Energy Saving. vDRAM Configuration Press Enter to set the items of DRAM Configuration. vCPU Clock This option is used to set the CPU clock. vPCI Express Clock This option is used to set the PCI Express clock. vSpread Spectrum If you enable spread spectrum, it can significantly reduce the EMI Electro Magnetic Interference generated by the system. The setting values are Disabled and Enabled. The available setting values are By SPD and Manual. vCAS Latency Time This item determines CAS Latency. The available setting values are 6, 5, 4, 3, 2, and Auto. vPrecharge delay tRAS This item allows you to set the precharge delay time. The available setting values are Auto, 4 15. vSystem Memory Frequency This item allows you to set the memory frequency of your system. The setting values are Disabled and Enabled. If it cannot detect one either due to improper configuration or physical unavailability, it will appear an error message. The available setting values are Disabled and Enabled. vBoot Up NumLock Status This item defines if the keyboard Num Lock key is active when your system is started. The available setting values are On and Off. vGate A20 Option This option is used to set up the A20 signal control necessary for system is started. vSecurity Option When it is set to Setup, a password is required to enter the CMOS Setup screen; When it is set to System, a password is required not only to enter CMOS Setup, but also to start up your PC.

vAPIC Mode This option is used to enable or disable APIC function. vMPS Version Control For OS This option is used to set up the version of MPS Table used in OS. vDelay For HDDsecs This option is used to set the delay time of selecting the HDD controller. vFull Screen LOGO Show This option allows you to enable or disable the full screen logo. The available setting values are Disabled and Enabled. vSmall Logo EPA Show This item allows you to enable or disable the EPA logo. The available setting values are Disabled and Enabled. Note these items need the support of CPU. The available setting values are IDE, RAID, AHCI. vOnChip Serial ATA This option is used to set the Onchip Serial ATA function. It is used to set the PATA IDE Mode. The available setting values are Primary, Secondary. vSATA Port This option is used to set the Serial ATA Port. Note Do not try to set the same values for serial ports 1 and 2. vUART Mode Select Use this option to select the UART mode. Setting values include Normal, IrDA, and ASKIR. The setting value is determined by the infrared module installed on the board. vUR2 Duplex Mode This option is available when UART 2 mode is set to either ASKIR or IrDA. The available setting values are Disabled and Enabled. vUSB 2.0 Controller This option is used to set whether the USB 2.0 Controller is enabled. vUSB Operation Mode This item is used to set the operation mode of USB. vUSB Keyboard Function This option is used to set whether the USB keyboard controller is enabled. vUSB Mouse Function This option is used to set whether the USB mouse controller is enabled. vUSB Storage Function This option is used to set whether the USB storage controller is enabled. vUSB Mass Storage Device Boot Setting This option is used to set the simulation mode when boots from USB device. In other words, it is a standard that describes how computer components work together to manage system hardware.

In order to use this function the ACPI specification must be supported by the OS for example, Windows 2000 or Windows XP. The available setting values are Enabled and Disabled. vACPI Suspend Type This option is used to set the energy saving mode of the ACPI function. When you select S1 POS mode, the power will not shut off and the supply status will remain as it is, in S1 mode the computer can be resumed at any time. When you select S3 STR mode, the power will be cut off after a delay period. The status of the computer before it enters STR will be saved in memory, and the computer can quickly return to previous status when the STR function wakes. vRun VGABIOS if S3 Resume This option allows the system to initialize the VGABIOS from S3 Suspend to RAM sleep

state. The available setting values are Auto, Yes and No.  
vPower Management This option is used to set the power management scheme. The setting values are Yes and No.  
vSuspend Type This option is used to set sleep mode.  
vMODEM Use IRQ This option is used to set the IRQ in which the modem can use. The system will automatically wake up when the modem receives an incoming call. The setting values are Disabled and Enabled. In order to use this function, the startup password function must be canceled. Also, the PC power source must not be turned off. The setting values are Disabled and Enabled.  
vDate of Month Alarm When the Resume by Alarm set as Enabled, this item will be modified. It is used to set the timing for the startup date.  
vTime h:mm:ss Alarm When the Resume by Alarm set as Enabled, this item will be modified. The available options are Off remain in turn off status, On auto power on and Former Sts resume with the previous status. The setting values are Disabled and Enabled.  
vINT Pin 18 Assignment This option is used to name the interrupt request IRQ line assigned to a device connected to the PCI interface on your system.

vPCI Express relative items  
Maximum Payload Size This option is used to set maximum TLP payload size for PCI Express devices. When the temperature exceeds the setting value, the motherboard will automatically cutoff power to the computer.  
vWarning Temperature This option is used to set the warning temperature for the system. A dialogue box will pop up that allows you to load the default BIOS settings. Select and then press to load the defaults. Select and press to exit without loading. The defaults set by BIOS set the basic system functions in order to ensure system stability. But if your computer cannot POST properly, you should load the failsafe defaults to restore the original settings. Then carry out failure testing. If you only want to load the defaults for a single option, you can select the desired option and press the key. Select this option and press, and a dialogue box will pop up to let you load the optimized BIOS default settings. Select and then press to load the optimized defaults. Select and press to exit without loading. The defaults set by BIOS are the optimized performance parameters for the system, to improve the performance of your system components. However, if the optimized performance parameters are not supported by your hardware devices, it will likely cause system reliability and stability issues. If you only want to load the optimized default for a single option, select the desired option and press the key. The Supervisor password can be used to start the system or modify the CMOS settings. The User password can also start the system. While the User password can be used to view the current CMOS settings, these settings cannot be modified using the User password. The password you enter will replace any previous password. When prompted, key in the new password and press. If you do not want to set a password, just press when prompted to enter a password, and in the screen the following message will appear. Password Disabled!!! Press any key to continue.

Under the menu Advanced BIOS Features, if you select System from the Security Option, you will be prompted to enter a password once the system is started or whenever you want to enter the CMOS setting program. If the incorrect password is entered, you will not be permitted to continue. To begin using the CD, simply insert the CD into your CDROM drive. The CD will automatically display the main menu screen.

1. Install Driver  
A. Intel Chipset Driver  
B. Marvell LAN Driver  
C. Intel VGA Driver  
D. Intel RAID Driver  
E. Realtek Audio Driver
2. Accessories  
A. FOX ONE  
B. Fox LiveUpdate  
C. Microsoft DirectX 9.0  
D. Adobe Acrobat Reader  
E. Nonton Security  
F. Creat RAID Driver  
G. Floppy  
H. Intel RAID Utility
3. Click on dynamic Foxconn Logo to visit our homepage. Click the drivers that you want to install and begin the setup steps by manual. Or you just click one click Setup button to install the drivers by auto after installing Intel Chipset Driver.

Installing Utilities You can select the utilities that you want to install and begin the setup steps. It also allows users to monitor various temperature values, voltage values, frequency and fan speed at any time.

Alert Lamp When the system is in healthy status, the alert lamp color is green. When the system is in abnormal status, the alert lamp color is red.

Switch Button Click this button, it will shorten to below figure. It helps you to monitor your system healthy status at any time.

Exit Click this button to exit the program.

Minimum Click this button to minimize the window.

Configuration Click this button to configure the

parameters for the program. It determines which items will be shown in shorten mode. Homepage Click this button to visit Foxconn motherboard website. Click here to return to previous status 2. CPU Page CPU Control This page lets you select and run the FOX ONE developed benchmarks to determine the current performance level of the system. You can also adjust by manual. Only this page is set to Manual Adjustment, the Freq.

, Voltage, and Fan pages can be adjusted by manual. Go to CPU page Select the different benchmarks Adjust by manual Apply the changes Close this page Reset the changes Go to Freq. This page lets you to set CPU high limit temperature and enable the alert function. Go to Adjust page Set high limit by dragging the lever Show current CPU temperature value Enable alert function when the CPU temperature is higher than high limit value Show current high limit value of CPU temperature 4.2 Limit Setting Sys Temp. This page lets you to set system high limit temperature and enable the alert function. Set low limit rpm by dragging the lever Show current CPU fan rpm value Enable alert function when the CPU fan revis lower than low limit rpm value Show current low limit rpm value of CPU fan 4.4 Limit Setting Sys Fan This page lets you to set system low limit rpm and enable the alert function. Supported Operating Systems Windows 2000 Windows XP 32bit and 64bit Windows 2003 32bit and 64bit Using Fox LiveUpdate 1.1 Local Update BIOS Info. This page lets you know your system BIOS information. Click Backup, then give a name. Click Save to finish the backup operation. Key in a BIOS name Click here 1.3 Local Update Update This page lets you update your system BIOS from Internet. After click Update, there will show warning message, please read it carefully. If you still want to continue, click Yes. Then load a local BIOS file and follow the wizard to finish the operation. Note Fox LiveUpdate will auto backup BIOS before update because we have enabled this function in Configure option. Click start, it will search the new BIOS from Internet. Then follow the wizard to finish the update operation. Click start, it will search the new drivers from Internet. Then follow the wizard to finish the update operation. Then follow the wizard to finish the update operation. Click start, it will search the new utilities from Internet. Then follow the wizard to finish the update operation.

After your setting, the utility will start searching and related information will show on the task bar. Click here Set auto search options Select search which kind of versions Apply the changes Reset to default value Note When enable auto search function, Fox LiveUpdate will appear searching result on taskbar. Double click the icon, you can see the detail information. Click here Show information about Fox LiveUpdate 3.2 Configure System This page lets you set the backup BIOS location and change different skin of the utility. We delete comments that violate our policy, which we encourage you to read. Discussion threads can be closed at any time at our discretion. You may have to register before you can post click the register link above to proceed. To start viewing messages, select the forum that you want to visit from the selection below. Please feel free to browse our website for other available items. SATA II, RAID, 7.1 channel audio, Gigabit LAN and 8x USB 2.0 ports make this board the ideal choice for business and home office PCs. Foxconn motherboard meets the current and future demands of high performance, power embedded computing, making it ideal for communications, transaction terminal, interactive client, industrial automation applications as well as for standard home use. Please do not navigate to another page during this process. Thank you for your patience. All Rights Reserved. Imagine that this responsive datasheet is included in the product page of your webshop. How to integrate Icecat LIVE JavaScript. A manufacturer can have multiple brand names. Some manufacturers license their brand names to other producers. Product name is a key part of the Icecat product title on a product datasheet. Multiple product codes can be mapped to one mother product datasheet if the specifications are identical. We map away wrong codes or sometimes logistic variants.

Often it has some integrated components like a sound card, enabling your computer to play sound, or a network card, to connect your computer to the network. The standard form factor size for

motherboards is ATX, you need at least a midtower to fit one of those in. MicroATX motherboards are often more complete and have more onboard devices, like a video board and fit in smaller cases, but are generally less expandable. But the datasheet is not yet standardized by an Icecat editor. Processor manufacturer Intel, Processor socket LGA 775 Socket T. Memory, maximum 4 GB. Motherboard form factor Micro ATX, Audio output channels 7.1 channels, Audio chip Realtek ALC883 Please contact your account manager at Icecat. As Full Icecat channel partner login to see all product data or request a Full Icecat subscription. If you continue to use this site we will assume that you are happy with it.

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