

■ Advanced Menu

Table 3 Advanced Menu

BIOS SETUP UTILITY		
Main	Advanced	Boot Security Server Mgmt Save & Exit
Onboard LAN Controller	[Enabled]	
Onboard LAN Boot	[Disabled]	
Audio Controller	[Enabled]	
> Display Configuration		
> Power Management Configuration		
> CPU Advanced Configuration		→ ← Select Screen
> SATA Configuration		↑↓ Select Item
> Trusted Computing		Enter: Select
> USB Configuration		+ - Change Opt.
> DIO Configuration		F1: General Help
> Super IO Configuration		F2: Previous Values
> H/W Monitor		F3: Optimized Defaults
		F4 Save & Exit
		ESC Exit
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Onboard LAN Controller

Options: Disabled, Enabled

Onboard LAN Boot

Options: Disabled, Enabled

Audio Controller

Options: Disabled, Enabled

Table 4 Advanced Menu – Display Configuration

BIOS SETUP UTILITY					
Main	Advanced	Boot	Security	Server Mgmt	Save & Exit
Display Configuration					
Fixed Graphics Memory Size					[128 MB]
IGFX – Boot Type					[VBIOS Default]
					→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
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Fixed Graphics Memory Size

Options: 128MB, 256MB

IGFX – Boot Type

Options: VBIOS Default, CRT, DP, HDMI

Table 5 Advanced Menu –Power Management Configuration

BIOS SETUP UTILITY					
Main	Advanced	Boot	Security	Server Mgmt	Save & Exit
Power Management Configuration					
ACPI Sleep State			[S3 (Suspend to RAM)]		
Restore AC Power Loss			[Power Off]		
Resume By PCIE Device			[Disabled]		→ ← Select Screen
Resume By RTC Alarm			[Disabled]		↑↓ Select Item
EUP Power Saving Mode			[Disabled]		Enter: Select
>Watchdog Timer Configuration					+ - Change Opt.
					F1: General Help
					F2: Previous Values
					F3: Optimized Defaults
					F4 Save & Exit
					ESC Exit
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ACPI Sleep State

Options: Suspend Disabled, S1 (CPU Stop Clock), S3 (Suspend to RAM)

Restore AC Power Loss

Options: Power Off, Power On, Last State

Resume By PCIE Device

Options: Disabled, Enabled

Resume By RTC Alarm

Options: Disabled, Enabled

EUP Power Saving Mode

Options: Disabled, Enabled

Watchdog Timer Configuration■ **WDT Function**

Options: Disabled, Enabled

Table 6 Advanced Menu –CPU Advanced Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
CPU Advanced Configuration				
Hyper-Treading		[Enabled]		→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
Execute Disable Bit		[Enabled]		
Limit CPUID Maximum		[Disabled]		
EIST		[Enabled]		
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Hyper-Treading

Options: Disabled, Enabled

Execute Disable Bit

Options: Disabled, Enabled

Limit CPUID Maximum

Options: Disabled, Enabled

EIST

Options: Disabled, Enabled

Table 7 Advanced Menu –SATA Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
SATA Configuration				
Configure SATA as		[AHCI]		→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
SATA Port 1		TOSHIBA MK8046 (80.0G)		
SATA Port 2		Not Present		
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Configure SATA as

Options: IDE, AHCI

Table 8 Advanced Menu –Trusted Computing

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Configuration				
	TPM Support	[Disable]		
Current Status Information				
	Reset Required			
				→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
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TPM Support

Options: Disable, Enable

Table 9 Advanced Menu –USB Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
USB Configuration				
USB Devices:				
	1 Drive, 1 Keyboard, 1 Mouse			
	Legacy USB Support	[Enabled]		
	EHCI Hand-off	[Disabled]		
Mass Storage Devices:				
	San Disk	[Auto]		
				→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
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Legacy USB Support

Options: Disabled, Enabled, Auto

EHCI hand-off

Options: Disabled, Enabled

Mass Storage Device

Options: Auto, Floppy, Forced FDD, Hard Disk, CD-ROM

Table 10 Advanced Menu –DIO Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
DIO Configuration				
User Configuration		[Disabled]		
DI-1		1		
DI-2		1		
DI-3		1		
DI-4		1		
DO-1		1		
DO-2		1		
DO-3		1		
DO-4		1		
→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit				
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User Configuration

Options: Disabled, Enabled

Enabled:

DO-1

Options: Output Low, Output High

DO-2

Options: Output Low, Output High

DO-3

Options: Output Low, Output High

DO-4

Options: Output Low, Output High

Table 11 Advanced Menu – Super IO Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Super IO Configuration				
>Serial Port 1 Configuration >Serial Port 2 Configuration		→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit		
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Table 12 Advanced Menu – Super IO Configuration – Serial Port 1 Configuration

BIOS SETUP UTILITY						
Main	Advanced	Boot	Chipset	Power	Security	Exit
Serial Port 1 Configuration						
Serial Port Device Settings		[Enabled] IO=3F8h ; IRQ=4;				
Change Settings Serial Port 1 Type		[Auto] [RS232]				
→←: Select Screen ↑↓: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save and Exit ESC: Exit						
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Serial Port

Options: Disabled, Enabled

Change Settings

Options: Auto,

IO=3F8h; IRQ=4;

IO=3F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=2F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=3E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=2E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

Serial Port 1 Type

Options: RS232, RS422, RS485

Table 13 Advanced Menu – Super IO Configuration – Serial Port 2 Configuration

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Serial Port 2 Configuration				
Serial Port		[Enabled]		→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
Device Settings		IO=2F8h; IRQ=3;		
Change Settings		[Auto]		
Serial Port 2 Type		[RS232]		
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Serial Port

Options: Disabled, Enabled

Change Settings

Options: Auto,

IO=2F8h; IRQ=3;

IO=3F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=2F8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=3E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12;

IO=2E8h; IRQ=3, 4, 5, 6, 7, 9, 10, 11, 12

Serial Port 2 Type

Options: RS232, RS422, RS485

Table 14 Advanced Menu –H/W Monitor

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
PC Health Status				
CPU Warning Temperature		[Disabled]		
CPU Temperature		: +55 C		
Memory Temperature		: +41 C		
System Temperature		: +42 C		
+3.3V		: +3.328V		
+VCORE		: +1.056V		
+VGFX		: +1.008V		
+1.05V		: +1.048V		
+1.5V		: +1.505V		
+5VDUAL		: +5.086V		
+VIN		: +19.096V		
+3.3VSB		: +3.360V		
				→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
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CPU Warning Temperature

Options: Disabled, 80 °C , 85 °C, 90 °C, 95 °C

■ Boot Menu

Table 15 Boot Menu

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Boot Configuration				
Full Screen LOGO Display		[Disabled]		
Setup Prompt Timeout		1		
Bootup NumLock State		[On]		
Boot Option Priorities				
Boot Option #1		[UEFI: SanDisk]		
Boot Option#2		[SATA PM: TOSHIBA...]		
Hard Drive BBS Priorities				
				→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit
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Full Screen LOGO Display

Options: Disabled, Enabled

Bootup Numlock State

Options: On, Off

Boot Option #1

Options: UEFI, SATA PM:Disabled

Boot Option #2

Options: UEFI, SATA PM:Disabled

Hard Drive BBS Priorities

■ Boot Option #1

Options: UEFI , SATA PM:Disabled

■ Security Menu

Table 16 Security Menu

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Password Description If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the User will have Administrator rights The password length must be in the following range: Minimum Length 3 Maximum length 20 Administrator Password User Password			→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit	
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■ Save & Exit Menu

Table 17 Save & Exit Menu

BIOS SETUP UTILITY				
Main	Advanced	Boot	Security	Save & Exit
Save Changes and Reset Discard Changes and Reset Save Options Save Changes Discard Changes Restore Defaults			→ ← Select Screen ↑↓ Select Item Enter: Select +- Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4 Save & Exit ESC Exit	
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Save Changes and Exit

Exit system setup after saving the changes. Once you are finished making your selections, choose this option from the Exit menu to ensure the values you selected are saved to the CMOS RAM. The CMOS RAM is sustained by an onboard backup battery and stays on even when the PC is turned off. When you select this option, a confirmation window appears. Select [Yes] to save changes and exit.

Discard Changes and Exit

Exit system setup without saving any changes. Select this option only if you do not want to save the changes that you made to the Setup program. If you made changes to fields other than system date, system time, and password, the BIOS asks for a confirmation before exiting.

Discard Changes

Discards changes done so far to any of the setup values. This option allows you to discard the selections you made and restore the previously saved values. After selecting this option, a confirmation appears. Select [Yes] to discard any changes and load the previously saved values.

Load Optimal Defaults

Load Optimal Default values for all the setup values. This option allows you to load optimal default values for each of the parameters on the Setup menus, which will provide the best performance settings for your system. The F9 key can be used for this operation.

Load Failsafe Defaults

Load Optimal Default values for all the setup values. This option allows you to load failsafe default values for each of the parameters on the Setup menus, which will provide the most stable performance settings. The F8 key can be used for this operation.

Chapter 4

Driver Installation

If your QBOX-1600 does not come with an operating system pre-installed, you will need to install an operating system and the necessary drivers to operate it. After you have finished assembling your system and connected the appropriate power source, power it up using the power supply and install the desired operating system. You can download the drivers for the QBOX-1600 from the Quanmax website at www.quanmax.com and install as instructed there. For other operating systems, please contact Quanmax.