TABLET COMPUTER

DR886EX

USER'S GUIDE

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EMC and Safety Notice

FCC Regulations:

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

RF Exposure Information (SAR)

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the EUT transmitting at the specified power level in different channels.

The highest SAR value for the device as reported to the FCC is 0.789 W/kg when placed next to the body.

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of http://www.fcc.gov/oet/fccid after searching on FCC ID: IR5DR886EX.

Regulatory Information/Disclaimers

Installation and use of this computer must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than manufacturer specified. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

Important Note

FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operated with any other antenna or transmitter.

CE

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

EN55022 (CISPR 22) Radio Frequency Interference

EN55024 (EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5,

EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61000-3-2,

EN61000-3-3) Generic Immunity Standard

EN60950 (IEC950) Product Safety

R&TTE (CE) Manual Regulatory Requirement (WLAN - IEEE 802.11b/g)

802.11b/g Restrictions:

European standards dictate maximum radiated transmit power of 100mW EIRP and frequency range 2.400-2.4835 GHz. In France, the equipment must be restricted to the 2.4465-2.4835 GHz frequency range and must be restricted to indoor use.

CE Declaration of Conformity



Is herewith confirmed to comply with the requirements set out in the Council Directive on the approximation of the laws of the member states relating to Electromagnetic Compatibility (89/336/EEC), Low-voltage Directive (73/23/EEC) and the Amendment Directive (93/68/EEC), the procedures given in European

Council Directive 99/5/EC and 89/3360EEC.

The equipment was passed. The test was performed according to the following European standards.

EN 300 328 V.1.4.1 (2003-04)

EN 301 489-1 V.1.4.1 (2002-04)/EN 301 489-17 V.1.2.1 (2002-04)

EN 50371:2002

EN 60950:2000

UL, TÜV

AC Adapter (TÜV includes EN60950 LVD)

Power Conservation

This computer consumes much less power than conventional computers. However, power consumption may be reduced by properly configuring the Power Management Setup. It is recommended the power saving functions be enabled even when not running on battery power. Please read the power saving features and the setting procedures described in this manual for setting your computer.

Environmental Information, Material Safety and Recycling

Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

All materials used in the construction of this equipment are recyclable or environmentally friendly.

Please recycle the packing materials, and at the end of the product's life, all other materials by local regulations.

Please refer "Material and Recycling" for the contents of the materials.

- The equipment may still contain tiny amount of hazardous substances for health and environment, though those are below control level.
- To avoid spreading such substances into the eco system, and to minimize the pressure on the natural, you are encouraged to use the appropriate take-back. Those will reuse or recycle most of the materials in a sound way after end life.
- The crossed bin symbol indicates proper disposal is required.

- For more information on collection, reuse and recycling, please consult local or regional waste administration.
- You can also contact the dealer for more information on the environmental details of the equipment.

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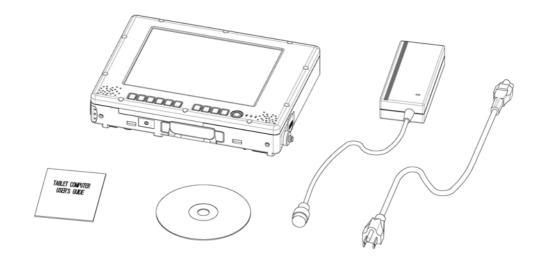
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GETTING STARTED

Unpacking

The following components come with your computer. If anything is missing or damaged, please notify the dealer immediately.

- Computer unit
- AC Adapter
- AC Power Cord
- Utility CD
- User's Guide
- Carrying Bag



Quick Check

- Insert the battery into compartment; fix the screw till battery is in position.
- Attach the AC adapter and charge battery for at least 10 minutes.

Turn ON the computer by pressing the power button momentarily.

Notice:

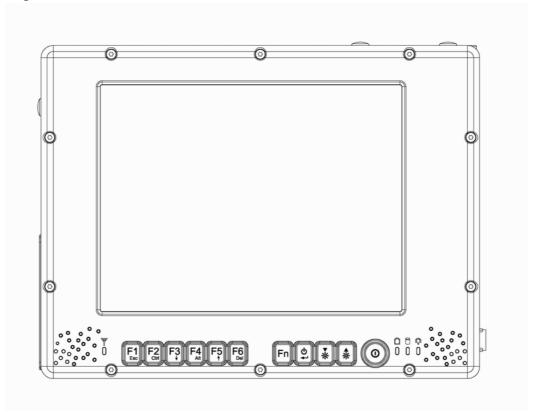
- When ambient temperature is under 0, the system may not boot up immediately. System will beep with charge light flashing while heater working. After 13~15 minutes, the system will boot up automatically
- Under emergency situation, to skip heating and boot up system immediately by pressing power button for >10 seconds. (But can not guarantee all devices on the computer work properly)
- Turn OFF the computer using either one of the following procedures:
 - 1. Press power button momentarily to "Standby"* or "Hibernate"* dependent on operating system (OS) and power scheme settings.
 - 2. Press power button for 4 seconds to have a "Hard" power off. System shuts down without saving any data or parameters.
 - *: Some operating systems may not support these functions.
 - 3. Click Start → Shut Down in Windows to Turn OFF.

Driver or application software installation may be necessary for further operation.

Controls and Indicators

Note: Some of the functions are optional.

Top



Ψ. RF device indicator

F1~F6: Function keys, blue font are alternative functions enabled by pressing

Fn and the key simultaneously

Fn: To enable alternative function keys

Sleep button (Refer "Timeout/Standby/Wake up")

Display brightness decrease

Display brightness increase

Power button (Refer "Timeout/Standby/Wake up")

☐: Battery charge/heater activity indicator

ON: Charging

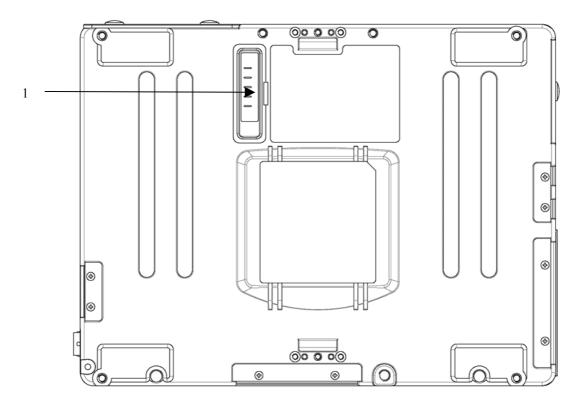
OFF: Battery full (When no battery installed it's off, too)

Flash: Heater active (Heater is an optional device)

 Θ : HDD (Hard Disk Drive) activity indicator

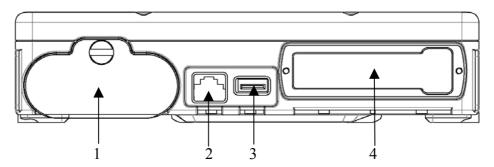
Power indicator

Rear



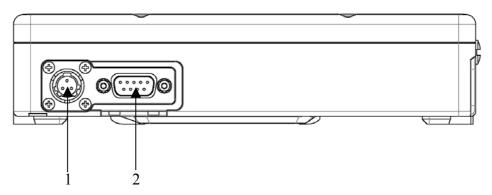
1. Secondary battery connector

Left



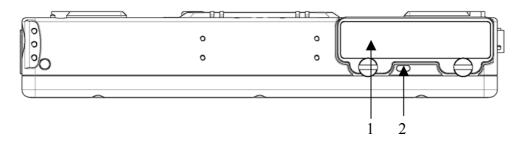
- 1. Battery
- 2. LAN
- 3. USB (Universal Serial Bus)
- 4. PCMCIA slots or Express Card

Right



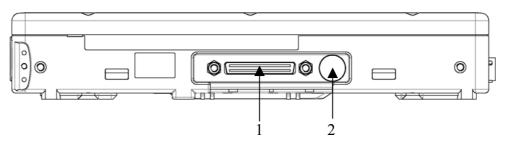
- 1. DC jack (2 pin for DR886EX-I, 3 pin for DR886EX-M)
- 2. Serial port (COM1)

Top



- 1. HDD
- 2. Kensington lock slot

Bottom



- 1. Docking connector
- 2. External antenna jack (Option)

COMPONENTS AND OPERATIONS

Location

A clean and moisture-free environment is preferred. Make room for air circulation. Avoid areas with:

- Sudden or extreme changes in temperature.
- Extreme heat.
- Strong electromagnetic fields (near television set, motor rotation area, etc.).
- Dust or high humidity.

If it is necessary to work in a hostile environment, please regularly maintain your computer by cleaning dust, water, etc. and keep it in optimal condition.

Ruggedness

The computer is designed with rugged features such as vibration, shock, dust, and rain/water protection. However, it is still necessary to provide appropriate protection while operating in harsh environments.

NEVER immerse the computer in water. Doing so may cause permanent damages. Drop may cause parts break or permanent damages.

The D-sub connector cap is for dust and shock protection only. The connector itself is sealed internally. Other I/O ports and devices must have caps tightly closed or cable inlets sealed while exposed to water or dust.

All connectors will corrode if exposed to water or moisture. Corrosion is accelerated if the power is ON. Please take proper measures in cable connection to avoid water entering into connectors.

The DC jack and cables are sealed and may be operated with water splashing while attached. All port covers should be in place when no cable is attached.

Operating Systems

The computer is compatible with most operating systems (OS). However, not all functions are 100% compatible. For example, ACPI, APM, Smart Battery, etc. are not available on DOS, Windows NT, and other non-Microsoft OS. Consequently "Standby", "Hibernation", "Battery Gauge" etc. would not work under such operating systems.

ACPI: Advanced Configurations and Power Interface

APM: Advanced Power Management

AC Adapter

The AC adapter performs two functions:

- It powers the computer from an external AC source.
- It charges the computer battery.

The adapter automatically detects the AC line voltage (110V or 220V) and adjusts accordingly.

The following are recommended when using the AC adapter:

- Use a properly grounded AC outlet.
- Use one AC outlet exclusively for the computer. Having other appliances on the same line may cause interference.
- Use a power strip with built-in surge protection.

Connect the AC adapter:

- Plug the AC cord to the adapter.
- Plug the other end of the AC cord into the wall outlet. Make sure the green LED on the adapter turns on.
- Attach the DC plug into the power jack of the computer; turn the lock ring clockwise to secure it.

AC Adapter Indicator

The green LED indicates that AC power is ready.

Battery

The computer will automatically switch to battery when the external power source (AC adapter or optional vehicle adapter) is disconnected.

Battery Power Saving Tips

The computer comes with an intelligent power-saving feature. You may extend the battery life by:

- Setup power saving functions in Operating System Power Management options (e.g. Windows Power Options).
- Setup power saving functions in BIOS "Power Management Setup" (mainly for non-ACPI/APM operating systems).
- Lower the intensity of the display by brightness control.
- Turn the computer into standby (by Sleep or Power button) when it is temporarily not in use.

- Shut down the computer when it will not be in use for longer period of time.

Battery Low

When the battery is nearly exhausted, the computer gives the following "Battery Low" warnings:

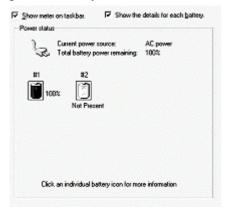
- Windows battery low warning.
- The power LED flashes.

Once the "Battery Low" warning occurs, please:

- Save and close the files you are currently working on then shut down the computer.
- Plug in AC or vehicle adapter to recharge the battery.

Battery Gauge

You may check battery status from battery gauge in Windows. Click the power/battery icon to reveal the battery gauge window.



Note: Battery characteristic varies depending on factors such as ambient temperature, charging method, load current, aging, etc. For example, the chemicals of the battery are more inactive at low temperature, thus decreases the output power.

The battery gauge should only be used as a reference. Please do not expect it to show the exact amount of the power remaining. There is no memory effect on Lithium Ion battery cells. However, discharge the battery to nearly empty every month will help calibrating the internal gauge

Charging the Battery

Plug in the AC adapter or vehicle adapter to start the battery charging. If the battery is already full, the sense circuitry will stop high current charge within several minutes.

The LED Indicator turns ON when the battery is charging and turns OFF when the battery charge is completed.

To charge the Secondary Battery, simply install it into the computer and attach the AC adapter. The internal charger will charge the Primary and Secondary batteries simultaneously.

Optional Dual Battery Charger can charge Primary and Secondary batteries externally.

Boot Up and POST

The computer turns ON and loads the operating system (such as Windows) into the system memory. This start-up procedure is called "boot up".

The ROM BIOS Power On Self-Test (POST)

Each time the computer powers on, it automatically performs a self-test of its memory and hardware devices.

Timeout/Standby/Wake up

In Windows Control Panel Power Options you may set preferred options. If timeouts are set, the sequences of function are as follows:

- Normal \rightarrow Timeout (Monitor, HDD) \rightarrow Touch screen or any key \rightarrow Wake up (Normal)
- Normal → Timeout (Standby, Hibernate) → Power button → Wake up (Normal)

Directly press sleep button or power button the functions are as follows:

- Normal → Sleep button → Standby (also locks all function keys & touch screen) → Power button → Wake up (Normal)
- Normal → Power button → Standby/Hibernate/Shut down/etc. (dependents on power button setting)

Note: Timeout/Standby works under both AC adapter and battery mode. Some functions may not work under Windows NT or other non-Windows operating systems.

Shutdown

The following procedure is recommended in shutting down the computer:

- 1. Save any work you want to keep.
- 2. Make sure none of the disk drives are active (HDD and CD-ROM drive).
- 3. Remove any diskettes, CD-ROMs, or other media.
- 4. Follow the shut down procedure of your Operating System.

Failure to shut down the computer properly may result in loss of data or hardware damages.

Automatic shut down is activated at battery exhaust. Be sure to finish your work and save all your data when the battery low warning appears.

RTC

Battery backed up RTC (Real Time Clock/Calendar) is built in an on-board CMOS (Complementary Metal Oxide Semiconductor) chip. The RTC keeps track of the time and date while the computer is off. The CMOS chip also stores system setup information.

RTC battery is also recharged when AC adapter is attached.

Tips: When computer is not used for longer period, recharge it at least once per month to ensure RTC operation.

Safe Guard the Computer



Plug the Kensington lock into the slot near HDD and turn lock it. Both the computer and HDD are secured.

Kensington lock is a widely available 3rd party product.

Replacing Modules

Caution! Turn OFF the power before replacing any module.

To remove the modules:

- 1. Turn OFF the computer. ("Hibernate" or "suspend to disk" are not recommended as the parameters may change when modules are changed.)
- 2. Disconnect all cables from the computer.
- 3. Use a coin to turn loose the screws on the modules.
- 4. Remove the battery from the compartment.
- 5. Remove the HDD from the computer.



To re-install the modules:

Gently push the module into the slot. Fasten the screw to fix the module. Make sure the o-rings are firmly fixed. No sealant is necessary for the o-rings.

Hard Disk Drive

The Hard Disk Drive (HDD) is a 2.5" type standard serial ATA interface data storage device.

HDD is user removable. This provides convenience and security. It can **ONLY** be removed while power is **OFF**.

Note: NEVER drops your HDD module or exposes it to high temperature, high humidity, or any hazardous environment. **NEVER** try to disassemble the module.

Static discharge may destroy your device and data. Always pick up the modules by touching the case only.

Touch Screen

Touch screen facilitates direct finger touch or pen input on the screen instead of mouse or touch pad.

PCMCIA Card

The computer supports 1x type-II PCMCIA card. To remove the card, push the eject button. The eject button can hide into the compartment by pushing it inward gently.

Express Card

The computer supports two form Express cards, 34 mm wide & 54 mm wide in an L-shape. You can install an Express Card while the computer is running. The computer automatically detects the card.

To install an Express Card:

- Hold the card with the top side of the card.
- Slide the card into the slot until the card is completely seated in its connector. To remove an Express Card:

Press the card and remove the card gently.

External Backlight Keyboard (Option)

The external backlight keyboard is equivalent to a full size desktop keyboard plus extra functions. The interface is via USB port.

Track point

The track point is functionally equivalent to a mouse. Pushing the track point may move the cursor on the screen. The 2 buttons act same as mouse buttons.

Backlight

Press [I-O] key for approximately 1 second turns keyboard backlight ON or OFF.



Docklight (Option)

Docklight acts as docking unit or port enhancer. It contains more ports that are not available on system unit.

Mount Docklight

- 1. Open the rubber cap on the docking connector.
- 2. Align the docking connector.
- 3. Attach Docklight.
- 4. Fix the screws.

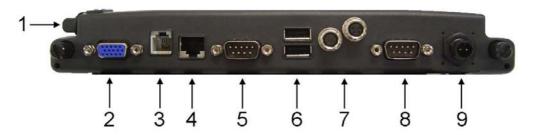
Docklight ports

Top



1. Docking connector

Bottom and Left:



- 1. Audio jacks (Microphone/Speaker)
- 2. RGB port
- 3. Modem jack (RJ11)
- 4. LAN jack
- 5. Serial port (COM3)
- 6. USB port 1, 2 (standard type)
- 7. USB port 3, 4 (proprietary sealed type)
- 8. Serial port (COM2)
- 9. DC jack

Stand Unit (Option)

Stand unit can hold the system unit and Docklight with adjustable view angle. It can be used in office or in vehicle.

There are 2 configuration options:

- Stand unit only to accept system unit.
- Stand unit with Docklight hooked to accept system unit.

Mount Stand Unit

- 1. Open the rubber cap on the docking connector.
- 2. Align the computer into stand unit.
- 3. Push the lever to engage and fix.
- 4. Lock the computer.

Heater

Built-in heater and control circuit activates heating when computer is turned ON at temperature 0°C~-20°C (32°F~-4°F).

The heating is automatically; just turn ON power the heater controller will detect temperature and take over. The power indicator flashes while heating.

The computer would boot up when the internal temperature reaches safe level. It may take $5\sim20$ minutes depends on how cold the temperature is. For temperature below -20°C (-4°F) the computer may never heat up.

Plug in AC or vehicle adapter for heating as battery power may become very low at low temperature.

RF Device

When RF device connect/function as one of (GPS/Bluetooth/HSDPA/Wi-Fi) stared up, the RF led will be on, and then have to match up the "wireless manager" application software to control the device "on/off".

Please refer the illustration as below:



OPTIONAL DEVICES

Memory Card

The memory card will expand main memory to facilitate better system performance. The cards are available as following: 1GB, 2GB

2nd Battery

A Lithium Ion rechargeable 2nd battery may mount on the rear. It has 1.5 times capacity of primary battery and same Smart Battery compliance.

The computer's internal charger can detect 2nd battery and perform charging accordingly.

Wireless LAN Card

IEEE 802.11a,b,g wireless LAN card and rugged antenna.

MDC Modem Card

V.90 56K Fax/Modem

Vehicle Adapter

Converting power from car lighters (12~14V) or truck batteries (24~28V). It can power the system and charge the batteries simultaneously.

Caution: Remove or disconnect the vehicle adapter when leaving the vehicle to avoid battery exhaustion.

Dual Battery Charger

The charger provides two slots for the Primary and Secondary battery respectively. It allows charging of both batteries simultaneously and accepts power from AC adapter or Vehicle adapter. It takes approximately 3~4 hours to fully charge both batteries.

Docklight

Ports: Serial x 2, USB x 4, LAN, Modem, RGB, Microphone, and DC jack. The Docklight can attach to computer or stand unit for mobile or stationary operation.

Stand Unit

This acts as computer holder for office or vehicle operation and can work with or without Docklight.

RF Device

The RF device are available as following:

- GPS
- Bluetooth
- HSDPA
- Wi-Fi

SPECIFICATIONS

CPU

Intel Core2 Duo ULV U7500 1.06GHz - Processor

Memory

System memory Standard: 512MB

Expandable 2GB

Cache memory Internal level-II 2MB Video memory 224MB (shared RAM)

Display

The display is a XGA 1024 x 768 LCD (Liquid Crystal Display). The computer is capable of displaying super XGA 1280 x 1024 on the LCD or external monitor.

LCD

Type: 8.4" Active Color TFT Resolution: 1024 x 768 pixels

Mode: XGA

Color: 256K (6 bit/color)

Brightness 300 cd/m² (without touch screen)

LED B/L XGA LCD: (Option)

Type: 8.4" Active Color TFT Resolution: 1024 x 768 pixels

Mode: XGA

Color: 256K (6 bit/color)

Brightness 600 cd/m² (without touch screen)

Hard Disk Drive

Type: 2.5" Interface: SATA

Touch Screen

Type: Resistive, polarized Interface: Serial (COM4)
Resolution: >1024x1024

I/O Ports

- Serial port (DB9)
- LAN jack
- 1 type-II PCMCIA slots + 1 Express slot or 2 type II PCMCIA slots
- Docking port
- USB port
- DC jack

Dimensions and Weight

Width: 250mm (9.8")
Depth: 190mm (7.4")
Height: 42mm (1.65")
Weight: 1.9Kg (4.2 lb)

Note: Weight varies depending on system configurations.

AC Adapter

Input Voltage: AC 100 - 240 V

Frequency: 50/60 Hz
Output Voltage: DC 19V
Maximum Power: 90 Watts

Dimension: 133 mm (W) x 58mm (D) x 30mm (H)

Weight: 400 g (0.88 lb.)

Battery

Primary Battery:

Type: 6 x 18650 cells Lithium Ion

Capacity: 11.1V 4400mAH

Dimension: 150 mm (W) x 58 mm (D) x 20 mm (H)

Weight: 300 g (0.65 1b.)

2nd Battery (Option):

Type: 9 x 18650 cells Lithium Ion

Capacity: 11.1V 6600mAH

Dimension: 150 mm (W) x 90 mm (D) x 20 mm (H)

Weight: 500 g (1.1 1b.)

Keypad/Keyboard

Embedded Keypad:

Function keys: F1~F6

Optional External USB Keyboard:

Number of keys: 89 Key travel: 1.5 mm

Function: Emulates standard 101/102-key keyboard

Trackpoint: Equivalent to PS/2 mouse

Vehicle Adapter (Option)

Input Voltage 12V/24V (10~32V) Auto-sense

Input Current 2.5A/5.5A max. (12V/24V respectively)

Output Voltage 19V +/-5%

Output Current 2.8A

Wiring Cigarette lighter/Truck battery

Application Car or Truck installation

Docklight DL-8I/DL-8M (Option)

Ports: Serial x 2*, USB x 4*, LAN, Modem, RGB, Audio

(microphone), DC jack

Dimensions: 250mm (9.8" W) x 34mm (1.3" D) x 38mm (1.5" H)

Weight: 0.45Kg (1 lb.) approximately

*: Serial ports: COM1 RS232 only, COM3 RS232 or optional RS422

USB ports: 2 standard connectors & 2 proprietary environmental sealed

connectors

Stand Unit (Option)

Dimensions: 240 mm (9.4" W) x 290mm (11.4" D) x 150mm (5.9" H)

Weight: 1.6Kg (3.5 lb.) approximately

Materials and Recycling

Materials of the computer are as follows:

Cabinet: Magnesium alloy AZ91D

UL grade PC+ABS GE C2800 or TN-3813BW

Bracket: Aluminum 5052

Steel with Nickel plating Stainless Steel S304

PCB: FR-4, UL 94V0

Battery: Rechargeable Lithium Ion cells
Packing: Carton: Unbleached paper

Cushion: Recyclable PE

Carrying bag: Recyclable PE Fiber

User's Guide: Paper

Please recycle the parts according to local regulations.

Environmental

Temperature: Operating: DR886-I: $0 \sim 40^{\circ}\text{C}$ (32 $\sim 104^{\circ}\text{F}$)

DR886-M: $-20 \sim 50^{\circ}\text{C} (-4 \sim 122^{\circ}\text{F})$

Storage: DR886-I: $-20 \sim 60^{\circ}\text{C} \ (-4 \sim 140^{\circ}\text{F})$

DR886-M: $-40 \sim 70^{\circ}\text{C} (-4 \sim 140^{\circ}\text{F})$

Humidity: Operating/Storage: 5~95% (non-condensing)
Altitude: Operating/Storage: 4572 /12,180 meters

(15,000/40,000 feet)

BIOS SETUP

Press [F2] at boot up to enter BIOS setup. Use arrow keys to select options and [+/-] to modify them. When finished, move to "Exit" and press [Enter] then confirm save by pressing [Y].

Main Menu

	Phoenix TrustedCore (tm) Setup Utility						
Mai	n Advanced	Security		TPM State	В	oot	Exit
Sy	stem Time:	[16:19:20]			Iten	n Specific Help
Sy	stem Date:	[03/02/20	07]				
Le	egacy Diskette A:	[1.44/1.25	MB	3½"]		-	Shift-Tab>, or selects field.
• ID	E Channel 0 Maste	er [None]					
• ID	E Channel 0 Slave	[None]	2				
• ID	E Channel 1 Maste	er [None]	[None]				
• ID	E Channel 1 Slave	[None]					
_	estem Memory: etended Memory:	640 KB 1038336 I	KB				
F1 I	Help ↑↓ Selec	ct Item –	/+	Change Values	S	F9	Setup Defaults
Esc I	Exit	u E	nter	Select ► Sub-N	Menu	ı F10	Save and Exit

Note: The contents may vary depending on computer configurations.

Main Menu Selections

You can make the following selections on the Main Menu. Use the sub-menus for other selections.

Feature	Options		Description
System Time	HH:MM:SS		Set the system time Hour, Minute, Second.
System Date	MM/DD/YYYY		Set the system date Month, Day, Year.
Legacy Diskette A	Disabled 360 Kb 1.2 MB 720 Kb 1.44/1.25 MB	5½" 5½" 3½" 3½"	Select floppy type. Note that 1.25 MB 3½" references a 1024 byte/sector Japanese media format. The 1.25MB, 3½" diskette requires a 3-Mode floppy-disk drive.
	2.88 MB	31/2"	

IDE Channel 0 Master Sub-Menu

Phoenix TrustedCore (tm) Setup Utility				
Main		· · · -	_	
IDE	Item Specific Help			
LBA Mode Cont 32 Bit I/O: Transfer Mode:	Multi-Sector Transfers: [Disabled] LBA Mode Control: [Disabled] 32 Bit I/O: [Disabled]		User = you enter parameters of hard-disk drive installed at this connection. Auto = autotypes hard-disk drive installed here. CD-ROM = a CD-ROM drive is installed here. ATAPI Removable = removable disk drive is installed here.	
1	↓ Select Item → Menu	-/+ Change Values Enter Select ► Sub-Menu	F9 Setup Defaults F10 Save and Exit	

IDE Channel 0 Master Sub-Menu Selections

You can make the following selections on the IDE Channel 0 Master sub-menu.

Auto None	User = you enter parameters of hard-disk drive installed at this connection.
ATAPI Removable CD-ROM IDE Removable Other ATAPI User	Auto = autotypes hard disk drive installed here. CD-ROM = a CD-ROM drive is installed here. ATAPI Removable = removable disk drive is installed here.
Disabled Enabled	This setting enables or disables 32 bit IDE data transfers.
	Other ATAPI User

IDE Channel 0 Slave Sub-Menu

Phoenix TrustedCore (tm) Setup Utility					
Main					
IDE C	Item Specific Help				
Туре:	[Au	ito]	-	ou enter parameters isk drive installed	
Multi-Sector Trans	sfers: [Di	sabled]	at this connection.		
LBA Mode Control:		[Disabled]		Auto = autotypes hard-disk	
32 Bit I/O:		[Disabled]		drive installed here.	
Transfer Mode:		[Standard]		CD- $ROM = a CD$ - ROM	
Ultra DMA Mode:		[Disabled]		drive is installed here.	
SMART Monitoring:		abled	ATAPI Removable = removable disk drive is installed here.		
F1 Help ↑↓ S	Select Item -/	+ Change Values	F9	Setup Defaults	
Esc Exit ↔ N	Menu E	nter Select ► Sub-Menu	F10	Save and Exit	

IDE Channel 0 Slave Sub-Menu Selections

You can make the following selections on the IDE Channel 0 Slave sub-menu.

Feature	Options	Description
Туре	Auto None ATAPI Removable CD-ROM IDE Removable Other ATAPI User	User = you enter parameters of hard-disk drive installed at this connection. Auto = autotypes hard disk drive installed here. CD-ROM = a CD-ROM drive is installed here. ATAPI Removable = removable disk drive is installed here.
32 Bit I/O	Disabled Enabled	This setting enables or disables 32 bit IDE
		data transfers.

IDE Channel 1 Master Sub-Menu

Phoenix TrustedCore (tm) Setup Utility					
Main					
IDE Cha	annel 1 Master [No	ne]	Item S	pecific Help	
Туре:	[Auto]		•	enter parameters	
Multi-Sector Transfe	rs: [Disable	d]	at this conn	ection.	
LBA Mode Control:	[Disable	d]	Auto = autotypes hard-disk		
32 Bit I/O:	Disable	ed]	drive installed here.		
Transfer Mode:	Standar	d]	CD- $ROM = a CD$ - ROM		
Ultra DMA Mode:	[Disable	d]	drive is installed here.		
	-	-	ATAPI Removable =		
			removable disk drive is		
		installed her	re.		
F1 Help ↑↓ Se	lect Item _/+	Change Values	F9	Setup Defaults	
Esc Exit	enu Enter S	Select ► Sub-Menu	F10	Save and Exit	

IDE Channel 1 Master Sub-Menu Selections

You can make the following selections on the IDE Channel 1 Master sub-menu.

Feature	Options	Description
Туре	Auto None ATAPI Removable CD-ROM IDE Removable Other ATAPI User	User = you enter parameters of hard-disk drive installed at this connection. Auto = autotypes hard disk drive installed here. CD-ROM = a CD-ROM drive is installed here. ATAPI Removable = removable disk drive is installed here.
32 Bit I/O	Disabled Enabled	This setting enables or disables 32 bit IDE data transfers.

IDE Channel 1 Slave Sub-Menu

	Phoenix TrustedCore (tm) Setup Utility					
Main			_			
ID	E Channel 1 Slav	e [None]	Item	Specific Help		
Туре:		[Auto]	_	ou enter parameters isk drive installed		
Multi-Sector Tr	ransfers:	[Disabled]	at this co	nnection.		
LBA Mode Co	ntrol:	[Disabled]	Auto = au	utotypes hard-disk		
32 Bit I/O:		[Disabled]	drive inst	drive installed here.		
Transfer Mode	:	[Standard]	CD-ROM = a CD-ROM			
Ultra DMA Mo	ode:	[Disabled]	drive is installed here.			
SMART Monit	oring:	Disabled	ATAPI Removable =			
			removabl installed	e disk drive is here.		
F1 Help	↑↓ Select Item	_/+ Change Values	F9	Setup Defaults		
Esc Exit	↔ Menu	Enter Select ► Sub-Menu	F10	Save and Exit		

IDE Channel 1 Slave Sub-Menu Selections

You can make the following selections on the IDE Channel 1 Slave sub-menu.

Feature	Options	Description
Туре	Auto None ATAPI Removable CD-ROM IDE Removable Other ATAPI User	User = you enter parameters of hard-disk drive installed at this connection. Auto = autotypes hard disk drive installed here. CD-ROM = a CD-ROM drive is installed here. ATAPI Removable = removable disk drive is installed here.
32 Bit I/O	Disabled	This setting enables or disables 32 bit IDE
	Enabled	data transfers.

General Help Window

Pressing <F1> or <Alt-H> on any menu brings up the General Help window that describes in detail the keys and functions for setup.

The scroll bar on the right of any window indicates that there is more than one page of information in the window. Use <PgUp> and <PgDn> to display all the pages. Pressing <Home> and <End> displays the first and last page. Pressing <Enter> displays each page and then exits the window. Press <Esc> to exit the current window.

Advanced Menu

Phoenix TrustedCore (tm) Setup Utility					
Main	Advanced	Security	TPM State	Boot	Exit
				Item	Specific Help
Legacy l	U SB Support:	[Ena	bled]		
Summary	y screen:	[Disa	abled]	Enable sur	port for Legacy
QuickBo	ot Mode:	[Ena	bled]	Universal	
Extended	l Memory Testing	g [Non	ie]		~
IGD - Bo	oot Type:	[VB]	OS Default]		
PS/2 Mo	use	[Aut	o Detect]		
PCI Exp	ress - Root Port 1	: [Ena	bled]		
USB - D	evice 29, Functio	n 7: [Ena	bled]		
Passive (Cooling Trip Poin	t [79 (C]		
Processo	r Power Manager	nent [Ena	bled]		
• SIO SMO	C227 CONFGUR	ATION			
F1 Help	↑↓ Select It	em _/+	Change Values	F9	Setup Defaults
Esc Exit	↔ Menu	Ente	r Select ► Sub-Menu	F10	Save and Exit

Warning: Incorrect settings may cause system malfunction. To correct it, restore the Setup Defaults with $\langle F9 \rangle$.

Advanced Menu Selections

You can make the following selections on the Advanced Menu.

Feature	Options	Description
Legacy USB	Disabled	Enable support for Legacy Universal Serial
Support	Enabled	Bus
Summary screen	Disabled	Display system configuration on boot
	Enabled	
QuickBoot Mode	Disabled	Allows the system to skip certain tests while
	Enabled	booting. This will decrease the time needed to boot the system.
Extended Memory	Normal	Determines which type of tests will be
Testing	Just zero it	performed on extended memory (above 1M).
	None	
IGD - Boot Type	VBIOS Default	Select the Video Device that will be
	CRT	activated during POST
	LFP	

Feature	Options	Description
	CRT+LFP TV LFP-SDVO EFP TV-SDVO CRT+LFP-SDVO CRT+EFP	
PS/2 Mouse	Disabled Enabled Auto Detect	'Disabled' prevents any installed PS/2 mouse from functioning, but frees up IRQ 12. 'Enabled' forces the PS/2 mouse port to be enabled regardless if a mouse is present. 'Auto Detect' will enable the PS/2 mouse only if present. 'OS Controlled' only displayed if the OS controls the mouse.
PCI Express - Root Port 1	Disabled Enabled Auto	Control the PCI Express Port via this setup option. Disabled - Port always disabled. Enabled - Port always enabled. Auto - Only enable if card found. Note that if Root Port 1 is disabled, Root Ports 2-4 will be disabled as well.
USB - Device 29, Function 7 Passive Cooling Trip Point	Disabled Enabled Disabled 15 C/23 C/31 C/39 C/ 47 C/55 C/63 C/71 C/ 79 C/87 C/95 C/103 C/ 111 C/119 C	Control USB 2.0 functionality through this Setup Item This value controls the temperature of the ACPI Passive Trip Point – the point in which the OS will begin throttling the CPU. Note: When the DTS is enabled, only values below 97C are valid.
Processor Power Management	Enabled Disabled GV3 only C-States Only	Selects the Processor Power Management desired: Disabled = C-States and GV3 are disabled. GV3 Only = C-States and disabled. C-states Only = GV3 is disabled

Feature	Options	Description
		Enabled = C-States andGV3 are enabled.
SIO SMC227 CONFGURATION		These items control the configuration of various National 393 SIO devices.

For most frequently altered setup "SIO SMC227 CONFIDURATION" please refers following:

Warning: Incorrect settings in RS485/RS422 of COMx mode may cause SIO component Damage. Must be cautious before Setup.

SIO SMC227 Configuration Sub-Menu

	Phoenix TrustedCore (tm) Setup Utility				
	A	dvanced	• • • • • •		
	5	SIO SMC227 CONI	FIGURATION	Item Specific Help	
C	OM1 port:	:	[3F8-IRQ 4]	Configure COM1 using	
	COM1 mo	de:	[RS232]	device options:	
C	OM2 port:		[2F8-IRQ 3]		
	COM2 mode: [RS232]		[RS232]	[Disabled]	
COM3 port: [3E8-IRQ 10]		[3E8-IRQ 10]	No configuration		
	COM3 mo	de:	[RS232]		
C	OM4 port:		[2E8-IRQ 5]	[3F8-IRQ 4]	
	COM4 mo	de:	[RS232]	Set the base I/O address	
Pr	rinter1:		[Disabled]	for COM1	
Pr	inter2:		[Disabled]		
F1	Help	↑↓ Select Item	_/+ Change Values	F9 Setup Defaults	
Esc	Exit	\leftrightarrow Menu	Enter Select ► Sub-M	enu F10 Save and Exit	

SIO SMC227 Configuration Sub-Menu Selections

You can make the following selections on the SIO SMC227 Configuration submenu.

Feature	Options	Description
COM1 port	Disabled	Configure COM1 using device options:
	3F8-IRQ 4	[Disabled]
		No configuration
		[3F8-IRQ 4]
		Set the base I/O address for COM1
COM1 mode	RS232	Configure UART mode options:
	TTL1	[RS232]: External Device
		[TTL1]: Internal Device
COM2 port	Disabled	Configure COM2 using device options:
	2F8-IRQ 3	[Disabled]
		No configuration

Feature	Options	Description
		[2F8-IRQ 3]
		Set the base I/O address for COM2
COM2 mode	RS232	Configure UART mode options:
	TTL2	[RS232]: External Device
		[TTL2]: Internal Device
COM3 port	Disabled	Configure COM3 using device options:
	3E8-IRQ 10	[Disabled]
		No configuration
		[3E8-IRQ 10]
		Set the base I/O address for COM3
COM3 mode	RS232	Configure UART mode options:
	TTL3	[RS232]: External Device
		[TTL3]: Internal Device
COM4 port	Disabled	Configure COM4 using device options:
	2E8-IRQ 5	[Disabled]
		No configuration
		[2E8-IRQ 5]
		Set the base I/O address for COM4
COM4 mode	RS232	Configure UART mode options:
	TTL4	[RS232]: External Device
		[TTL4]: Internal Device
Printer1	Disabled	Configure Printer1 device options:
	378-IRQ 4	[Disabled]
		No configuration
		[378-IRQ 7]
		Set the base I/O address for Printer1
Printer2	Disabled	Configure Printer2 device options:
	3BC	[Disabled]
		No configuration
		[3BC]
		Set the base I/O address for Printer2

Security Menu

Warning: If you forget user/supervisor password, the computer has to send back to manufacturer and replace EEPROM to make it work again.

Phoenix TrustedCore (tm) Setup Utility				
Main Advanc	ed Security	TPM State Bo	oot	Exit
Processor Serial N	umber	[Disabled]	It	em Specific Help
Set Supervisor Pass	sword	[Enter]		
Set User Password		[Enter]	Cont	rols detection of
Fixed disk boot sec	tor:	[Normal]	Proce	essor Serial No.
Diskette access:		[Supervisor]	Syste	em must be reset or
Password on boot:		[Disabled]		rted from power-on ettings to take effect.
USB Interface:		[Enabled]		
AC97 Audio Interfa	ace:	[Auto]		
AC97 Modem Inter	face:	[Auto]		
Cardbus/1394 Inter	face	[Auto]		
PCI Express – F	Root Port 3:	[Auto]		
PCI Express – F	Root Port 4:	[Auto]		
RF Security Control	1:			
F1 Help ↑↓ S	Select Item -	-/+ Change Values	F9	Setup Defaults
Esc Exit $\leftrightarrow N$	Menu I	Enter Select ► Sub-Menu	F10	Save and Exit

Security Menu Selections

You can make the following selections on the Security Menu.

Feature	Options	Description
Processor Serial Number	Disabled Enabled	Controls detection of Processor Serial No. System must be reset or restarted from power-on for settings to take effect.
Set Supervisor password	Enter New Password Confirm New Password	Supervisor Password controls access to the setup utility.
Set User Password	Enter New Password Confirm New Password	User Password controls access to the system at boot.
Fixed disk boot sector	Normal Write Protect	Write protects boot sector on the hard disk to protect against viruses.
Diskette access	Supervisor	Control access to diskette drives

Feature	Options	Description
Password on boot	Disabled Enabled	Enables password entry on boot
USB Interface	Disabled Enabled	Control the listed USB Functions by setting the item to the desired value.
AC97 Audio Interface	Disabled Auto	Control Detection of the AC97 Audio Device. Auto = AC97 Audio will be enabled if present, disabled otherwise. Disabled = AC97 Audio will be unconditionally disabled, regardless of presence.
AC97 Modem Interface	Disabled Auto	Control Detection of the AC97 Modem Device. Auto = AC97 Modem will be enabled if present, disabled otherwise. Disabled = AC97 Modem will be unconditionally disabled, regardless of presence.
Cardbus/1394 Interface	Auto/Disabled	Control the PCI Express Port via this setup option.
PCI Express – Root Port 3: PCI Express – Root Port 4:	Auto/Disabled/Enabled Auto/Disabled/Enabled	Disabled – Port always disabled. Auto – Only enable if care found.
Root Port 4:		Note that if Root Port 1 is disabled, Root Ports 2-4 will be disabled as well.
RF Security Control		RF Security Control: Wireless LAN WWAN GPS Blue Tooth

For most frequently altered setup "RF Security Control" please refers following:

RF Security Control Sub-Menu

Phoenix TrustedCore (tm) Setup Utility							
Security							
	RF Security	Control:	Item Specific Help				
Wireless Lan: WWAN: GPS: Blue Tooth:		Wireless Lan Control					
F1 Help	↑↓ Select Item	-/+ Change Values	F9 Setup Defaults				
Esc Exit	↔ Menu	Enter Select ► Sub-Menu	F10 Save and Exit				

RF Security Control Sub-Menu Selections

You can make the following selections on the RF Security Control sub-menu.

Feature	Options	Description
Wireless Lan	Disabled	Wireless Lan Control
	Enabled	Enabled Wireless function
WWAN	Disabled	WWAN Control
	Enabled	Enabled WWAN function
GPS	Disabled	GPS Control
	Enabled	Enabled GPS function
Blue Tooth	Disabled	Blue Tooth Control
	Enabled	Enabled Blue Tooth function

TPM State Menu

	Phoenix TrustedCore (tm) Setup Utility								
M	Iain	Advanced	Security		TPM State	Boot	Exit		
Cı	urrent T	PM State:	Enabled	and l	Deactivated	Item	Specific Help		
C	hange T	'PM State:	[No Cha	nge]		Change T	PM State		
F1	Help	↑↓ Select	Item –/	/+	Change Values	F9	Setup Defaults		
Esc	Exit	↔ Menu	E	nter	Select ► Sub-Menu	F10	Save and Exit		

TPM State Menu Selections

You can make the following selections on the TPM State Menu.

Feature	Options	Description
Change TPM State	No Change	Change TPM State
	Enable & Activate	
	Deactivate & Disable	
	Clear	

Boot Menu

	Phoenix TrustedCore (tm) Setup Utility								
Ma	ain Ac	lvanced	Security	TF	PM State	Boo	ot E	Exit	
Во	oot priority	order:					Item	Specific Help	
	1: USB K	EY:							
	2: USB FI	DC:					Keys use	d to view or	
	3: USB H	DD:					configure		
	4: IDE CD):					_	Oown arrows select	
	5: IDE HE	DD:					a device.		
	6: Legacy	Network	Card				<+> and	<-> moves the	
	7: PCI SC	SI:					device up	or down.	
	8:						<f> and <</f>	<r> specifies the</r>	
Ex	cluded from		der:				device fix	ked or removable.	
	: USB CD						<x> exclu</x>	udes or includes the	
	: USB ZIP						device to	boot.	
	: USB LS						<shift +<="" td=""><td>1> enables or</td></shift>	1> enables or	
	: PCI BEV						disables a	a device.	
	: Other US	SB:					<1 – 4> I	Loads default boot	
	: PCI:						sequence		
	: 1394 CD	ROM							
F1	Help	↑↓ Selec	et Item	_/+	Change V		F9	Setup Defaults	
Esc	Exit	↔ Men	u	Enter	Select \triangleright S	ub-Menu	F10	Save and Exit	

The system will try to boot from device on top then the 2nd and so on. If there is more than one device in each category, only the device on top of sub-menu can boot up.

Exit Menu

Phoenix TrustedCore (tm) Setup Utility								
N	Iain	Advance	Security	TPM	State	Boot	Exit	
E	xit Sav	ving Change	Item	Specific Help				
Lo D	oad Se	carding Chan tup Defaults Changes anges	ges				_	em Setup and save nges to CMOS.
F1	Help	↑↓ Sel	ect Item	_/+	Change	Values	F9	Setup Defaults
Esc	Exit	↔ Me	nu	Enter	Select ►	Sub-Menu	F10	Save and Exit

Exit Menu Selections

You can make the following selections on the Exit Menu.

Feature	Options	Description
Exit Saving Changes		Exit System Setup and save your changes to CMOS.
Exit Discarding Changes		Exit utility without saving Setup data to CMOS.
Load Setup Defaults		Load default values for all SETUP items.
Discard Changes		Load previous values from CMOS for all SETUP items.
Save Changes		Save Setup Data to CMOS

UTILITIES AND DRIVERS

Note: Most device drivers are available in Windows. Only when the default driver does not work properly you need to install the factory bundled drivers.

The utility CD includes most drivers of the computer's installed devices. Consult dealer if any driver is missing.

Re-install drivers or perform "Driver Update" to replace the Windows default drivers.

Check **readme.txt** file on utility CD to get the newest information before starting to install drivers.

Chipset

Windows Driver Installation:

Insert the Driver CD into the CD-ROM. Click **infinst_autol.exe** in the directory of DR8EX\Driver\Chipset\2kXpVista3264 then follow the prompt to complete installation.

VGA Utility Display Capability

Resolution & Color	LCD	RGB	LCD + RGB
640x 480x 16-bit color	О	О	О
640x 480x 24-bit color	О	О	О
640x 480x 32-bit color	О	О	О
800x 600x 64K color	О	О	О
800x 600x 24-bit color	О	О	О
800x 600x 32-bit color	О	О	О
1024x 768x 16-bit color	О	О	О
1024x 768x 24-bit color	О	О	О
1280x 1024x 16-bit color	X	О	X
1280x 1024x 24-bit color	X	О	X
1280x 1024x 32-bit color	X	О	X

Resolution & Color	LCD	RGB	LCD + RGB
1600x 1200x 16-bit color	X	О	X
1600x 1200x 24-bit color	X	О	X
1600x 1200x 32-bit color	X	О	X
2048x 1536x 16-bit color	X	O	X
2048x 1536x 24-bit color	X	O	X
2048x 1536x 32-bit color	X	О	X

The table lists typical display modes only. The system also supports standard video modes with lower resolution and color.

Windows Driver Installation:

Insert the Driver CD into the CD-ROM. Click win2k_xp1429.exe in the directory of DR8EX\Driver\VGA\Intel_945GM\2kXp32 then follow prompt to complete driver installation. Windows may recommend using their driver, but you should confirm to chang the factory bundled driver.

After restart and back to **Settings** window, choose proper **Colors** and **Screen Area.**

Audio Driver

Windows

Insert the Driver CD into the CD-ROM. Click **WDM_A400.exe** in the directory of DR8EX\Driver\Audio\2kXp_3264 then follow the prompt to complete installation.

USB 2.0

Windows does not need driver.

Touch Screen Driver

Enter BIOS Setup screen and set COM1 port as "TTL1". (COM1 has multiple connectivity, so it's necessary to setup. The optional COM4 may be configured as touch screen and doesn't need to configure the BIOS.) Afterwards, please cancel the prompt of installation wizard to setup the driver from the CD

(\DR8EX\Driver\Touchscreen\DP9000\2kxpVista3264\PM...Universal...v1.0.0. 8), and follow the prompt to complete installation and then restart.

PCMCIA Driver

Windows

The driver is automatically installed under Windows.

Mini PCI 1G AX92200 LAN

Insert the Driver CD into the CD-ROM. Click **Setup.exe** in the directory of E:\AX92200\DRIVER\RTL8110S\windows (612) then follow the prompt to complete installation.

Mini PCI INT8100 LAN

Windows does not need driver.

Mini PCI-E 1G RTL8111B LAN

Insert the Driver CD into the CD-ROM. Click **setup.exe** in the directory of DR8EX\Driver\PCIe_1G Lan\2kXp3264\RTL8168_8101E_664 then follow the prompt to complete installation.

Mini PCI-E Intel 3945ABG WLAN

*: For the driver and software to function correctly on Windows, the recommendation is to install Service Pack 4 or later. Ensure that MSI support level 3.1 or above is installed. Use the Windows Installer 3.1 v2 or greater.

Insert the Driver CD into the CD-ROM. Click v11.1.0.5_xp32.exe in the directory of DR8EX\Driver\PCIe_Intel WLAN\2kXp32 then follow the prompt to complete installation.

Fax/Modem Card Driver

Insert the Driver CD into the CD-ROM. Click **setup.exe** in the directory of DR8EX\Driver\MDC\mdc_w2kxp then follow the prompt to complete installation.

Wireless Manager

For flight safety and power saving reason, there is a utility provided easily to enable/disable RF devices of Wireless LAN/WWAN/GPS/Bluetooth in the run time. Insert the Driver CD into the CD-ROM. Click **setup.exe** in the directory of Utilities\Wireless Manager then follow the prompt to complete installation.

Input Management Services

Note:

- 1. This utility is valid for only Windows.
- 2. "Function Key Manager" is better for tablet.

Install

1. Run **setup.exe** from the directory of "Input Management Services" and then follows the prompt to complete.

Uninstall

- 1. Left-click the icon and then launch "Exit".
- 2. Run "Uninstall" from the path of "Start/All Programs/Input Management Services".
- 3. Do not uninstall form Add/Remove Program on Control Panel.

Icon Function

Left-click the icon there are 5 items:

- 1. Function Key Manager
- 2. On-Screen Keyboard
- 3. Launch Function key manager at startup
- 4. Launch On-Screen keyboard at logon
- 5 Exit

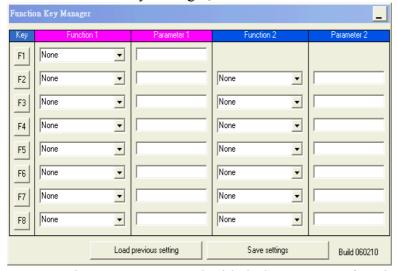
As the title is named, you could activate Function Key Manager and/or On-Screen Keyboard.

In addition, if you activate "Launch Function key manager at startup", will be on the task menu automatically after the system is launched. If you activate

"Launch On-Screen keyboard at logon" and the log on password is set; On-Screen keyboard will pop-up automatically when system get into/recover from following modes, "Logon/Logoff", "Standby/Resume", "Boot/Reboot", and "Hibernate/Resume". However, On-Screen keyboard will disappear after password is input correctly and enter the Windows desktop and launch again.

Launch

Launch Function Key Manager, and this window will be shown:



As "Function Key Manager" is titled, there are two function key sets (1 and 2). And eight function keys (Function 1 can be assigned from F1 to F8; Function 2 can be assigned from F2~F8) for each function key set could be defined by users. Each function key has 10 built-in functions. F1 is also used to switch between Function 1 & 2 set when "Toggle function 2" action is set; otherwise it's same as other function keys.

- 1. None
- 2. Open/Execute a file
- 3. Open a URL in default browser
- 4. Replace with another key
- 5. Mouse cursor move to
- 6. Simulate mouse button click
- 7. Change display output
- 8. Rotate screen
- 9. Change desktop background color

- 10. Chang desktop wallpaper
- 11. Launch On-Screen keyboard
- 12. Toggle function 2

Some functions need to assign additional parameters to work properly. Assign parameter for a function, click the mouse left button on the same row parameter field to enter the parameter or assign option in the pop-up dialog. Please refer to the following descriptions.

1. Open/Execute a file

Select a file from the pop-up window.

Set the proper file type if necessary, batch file (*.bat) is the default.



2. Open a URL in default browser

Input the address of the website, e.g. www.terralogic.co.uk.



3. Replace with another Key

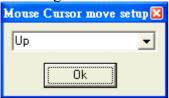
The single key or combination key can be used. For example, press "Ctrl" and" "x" simultaneously, {Ctrl} x will be shown in the parameter blank. It means the combination key of Ctrl and x.



However, some combination keys are excluded. For example, "Ctrl+Alt+Del", "Ctrl+Esc" and "Alt+Tab"; "Ctrl+Alt+Del" just jumps to run REAL "Ctrl+Alt+Del" right away, "Ctrl+Esc" goes to Start Menu, "Alt+Tab" will pop-up a window for selecting the working window.

4. Mouse cursor move to

Used to control the mouse cursor moving directions. "Up", "Down", "Left" and "Right" are the candidates.



5. Simulate mouse button click

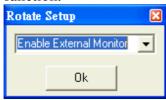
Used to define two button clicks of the mouse. "Left button click" and "Right button click" are alternatives.



6. Change display output

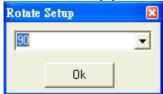
Switch display output among LCD, CRT and DVI. Just only one single mode can exist. "Enable External Monitor", "Enable Notebook Display", and "Enable External DVI" are the candidates.

Please connect the external monitor or external DVI before launching this function.

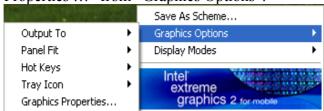


7. Rotate screen

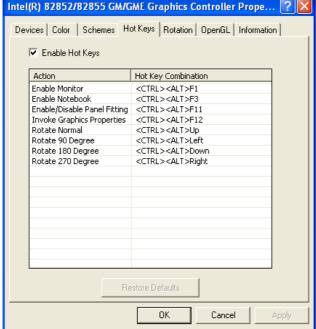
The rotate setup provides four choices: Normal, 90, 180 and 270.



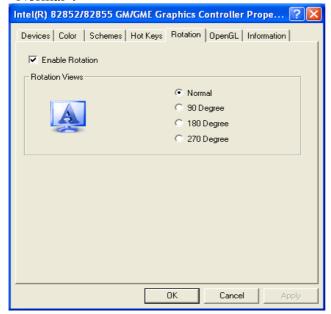
Please make sure Intel Extreme Graphics 2 driver/Control Panel application is installed and this icon will be on the task menu. Activate the "Graphics Properties ..." from "Graphics Options".







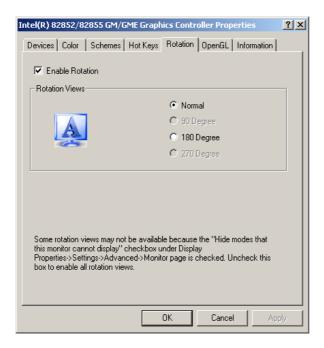
In the "Rotation", activate "Enable Rotation" and set the "Rotation Views" to "Normal".



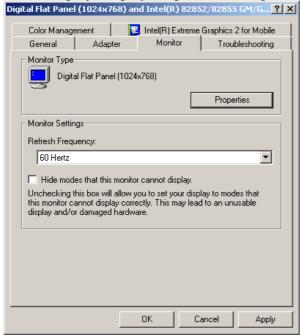
It is recommended that to set a Function Key to work as "Rotate Screen" with parameter of "Normal" when you have set other keys to act as "Rotate Screen" with parameter of "90", "180" or "270". So you could change display between "Normal" and rotation of "90", "180" or "270".

Note:

If you have suffered from the mask of 90/270 Degree as shown in the following window. The rotation of 90/270 cannot work correctly.



It results from "Hide modes that monitor cannot display" is enabled. So in such a situation, uncheck this box to enable all rotation views under Control Panel/Display/Display Properties/Setting/Advanced/Monitor.



If you rotate screen to "Normal", the "System Properties" windows will popup.

8. Change desktop background color

Used to change background color to make display more readable in the day or night. Select a color from the pop-up color palette.

9. Change desktop wallpaper

Used to change wallpaper to make display more readable in the day or night. Select a file from the pop-up window. Set the proper file type if necessary, bitmap Files (*.bmp) is the default.

10. Launch On-Screen keyboard

On-Screen keyboard is a utility that displays a virtual keyboard on the computer screen. Especially it is useful for tablet PC users; users could type data by using a pointing device or joystick. You can toggle this function key to enable/disable the on-screen keyboard.

11. Toggle function 2

This is only for "F1" in "Function 1" and no parameter has to be added. You can toggle this "F1" to launch the function key between "Function 1" and "Function 2". The top banner of activated area will be changed into pink and the icon will show for "Function 1" or for "Function 2".

When you have set this "Toggle function 2", you could get additional 6 function keys in "Function 2". In other words, 6 function keys in "Function 1" and 6 function keys in "Function 2" make 12 function keys in this Function Key Manager.

MAINTENANCE/SERVICE

Cleaning

ALWAYS turn OFF the power, unplug the power cord and remove the battery before cleaning.

The exterior of the system and display may be wiped with a clean, soft, and lintfree cloth. If there is difficulty removing dirt, apply non-ammonia, non-alcohol based glass cleaner to the cloth and wipe.

An air gun is recommended for cleaning water and dust. For salty water please clean with fresh water then blow-dry with an air gun.

Troubleshooting

Should the computer fail to function properly, the troubleshooting steps below may be followed.

- Check AC/vehicle adapter, battery, and the power source.
- Minimize the configuration, i.e. remove extra peripherals and devices.
- Remove the modules one by one (HDD, CD-ROM, Battery, etc.).
- Remove the software suspected.
- Set BIOS fail-safe default.
- Re-install operating system and application software.

RMA Service

If troubleshooting steps are unsuccessful, consult your dealer for RMA. Shipping instructions:

- 1. Remove any personal add-on devices or other media.
- 2. Use the original shipping container and packing materials, if possible.
- 3. If the original packing materials are not available, wrap the equipment with soft material (e.g. PU/PE form) then put the wrapped equipment into a hard cardboard shipping box.
- 4. Include a sheet with the following information: (Note: Please keep a copy of this sheet for your records.)
 - Name

- Address
- Unit serial number
- Place and date of purchase or the original invoice number
- Date of failure
- A DETAILED description of the problems you have encountered including: The operating system, the add-on device installed (if any), the application software, the failure phenomenon, etc.
- A list of the hardware/software configuration, if applicable.
- 5. Clearly mark the outside of the shipping box with the RMA #. If an RMA # is not present on the shipping box, receiving will be unable to identify it and it might be returned.
- 6. Unless prior arrangements have been made, the customer is responsible for all shipping costs. Unauthorized use of the company's shipping accounts is not permitted.

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