

IPMI Remote Management in IEI Solution - IPMI 2.0 Compliant



What is iRIS?

Let's start from IPMI first before we talk about iRIS. IPMI is a standardized computer system interface used by system administrators for out-of-band management of computer systems and monitor and control of their operation. It is a way to manage a computer that may be powered off or otherwise unresponsive by using a network connection to the hardware rather than to an operating system or login shell. iRIS is a modularized IPMI product, which is designed and manufactured by IEI company. iRIS is compliant with IPMI 2.0, and supports out-of-band remote management to allow administrators to manage a system remotely in the absence of an operating system or of the system management software. Thus, IPMI functions can work in any kind of scenarios such as:

1. Before an OS has booted
2. When the system is powered off
3. After OS or system failure or BSOD
4. Cross platform and OS independent

Using a worldwide standardized IPMI 2.0 interface and protocol allows IEI's iRIS technology to assist administrators to remotely monitor and manage all IEI iRIS supported devices by group or individual via Internet communication.

Application for iRIS

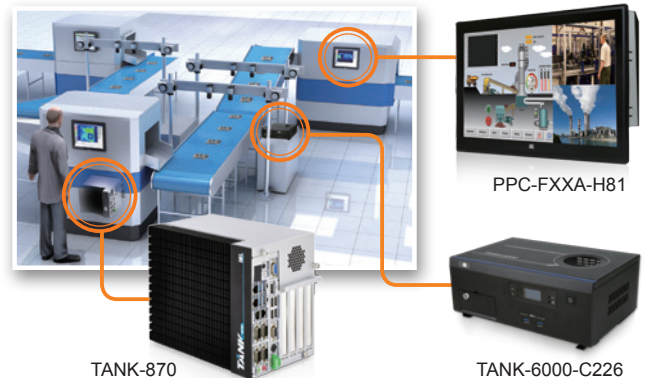
Retail Industry

Retail industry relies on software more than pure hardware architecture. Maintenance cost is the highest cost since service location could be everywhere, and any shutdown will cause business lost. Graphics performance with hardware management is the requirement for retail application such as digital signage, vending machine, kiosk, and ATM machine. IEI offers AMD graphics solution with IPMI module to fulfill application needs.



Factory Automation

Each production line has its own computer systems to do automated control of production processes. Active system alert could help to monitor all systems in production lines with less human resources, and instant notice and detailed event log with screen record could save time for troubleshooting. IEI provides a variety of solutions with iRIS support to save both time and human resources, and achieve less loss in production capacity.



iRIS Key Features

- Remote video streaming record
- Event trigger setting & video record

Multiple user access

Live video streaming

Video streaming

Qnap Industrial NAS

ICECARE-10W (Mobile POS)

Data monitor

Operating record

- Instant system alert email
- Instant system alert SMS

Alert

email

SMTP Server

SNMP Trap

SMS

SMS Server

- Remote software update
- Remote OS installation & recovery
- Remote KVM
- POST code display

- Software update
- OS installation & recovery
- KVM over IP
- POST code display

Diagnose

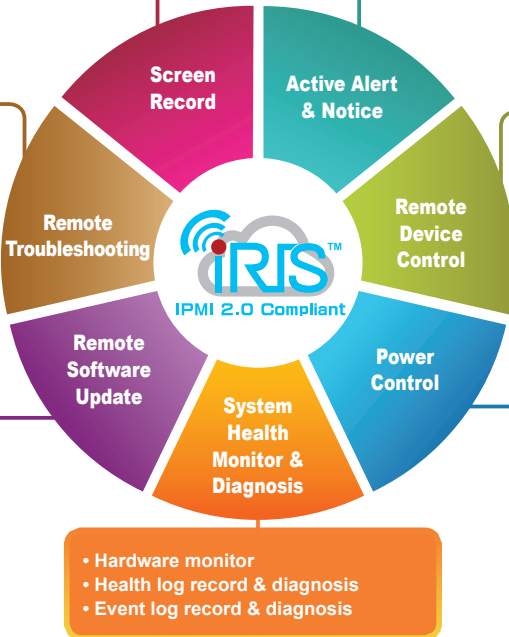
Update

Recover

» **Diagnose:**
Check system health, event log & POST code

» **Update:**
Remote firmware update

» **Recover:**
Remote OS installation & recovery



- Fan control
- Remote KVM
- Remote BIOS setting
- Remote, Cycling, Scheduling power turn On/Off control

- Reset system
- Power off system – Immediately / Orderly
- Power on system
- Power cycle system
- Group power control

TANK-860

- Hardware monitor
- Health log record & diagnosis
- Event log record & diagnosis



iMAN Utility

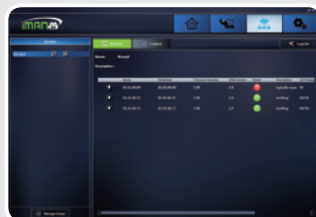
- Free offer in each product with IPMI function
- Group monitoring and power control
- KVM support with iRIS-2400
- Support Windows® operating system



Device status



Device information



Group monitoring and power control



Software setting



QRM+

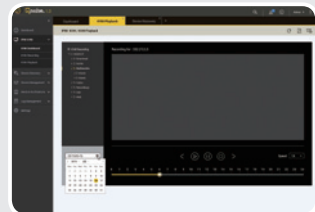
- Device discovery and topology
- Web-based management
- Remote KVM solution for IPMI
- Remote KVM recording and playback



Customizable Dashboards



QPulse Topology

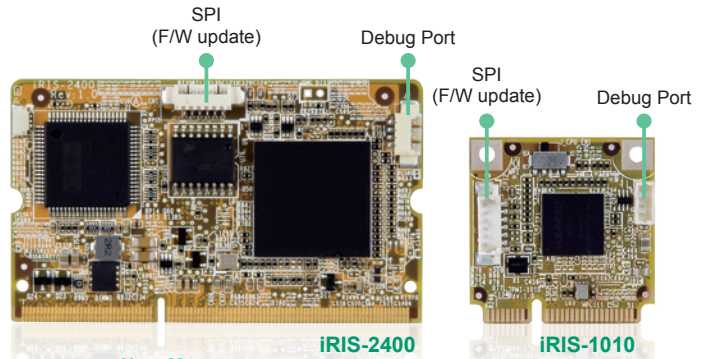


QPulse KVM Playback

iRIS Series

Specifications

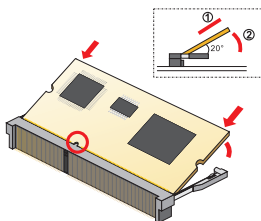
- IPMI 2.0 Based Management**
 BMC stack with a full IPMI 2.0 implementation
 Customizable sensor management
- OS Platform Independent**
- Hardware Health Monitor**
 System/CPU temperature
 Fan speeds
 Voltage
 Chassis intrusion
 Power supply failed
 FRU (Field Replaceable Unit)
- Event Log**
 BIOS event
 Hardware health monitor event
 Sensor readings
- Notifications**
 Email alerts
 SNMP traps
- LDAP Support**
 Direct LDAP support from the device
 Open LDAP (Generic LDAP) supported
- Media Redirection**
 Simultaneous floppy, Hard disk or USB and CD or DVD redirection
 Efficient USB 2.0 based CD/DVD redirection with a typical speed of 20XCD
 Support for USB key
 Completely secured (Authenticated or Encrypted) remote KVM or virtual media
- Remote Power Control**
 Remote power control
 Keyboard, Video & Mouse (KVM) over IP (iRIS-2400 only)
 Serial over LAN (SOL)



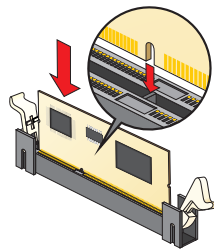
- User Management**
 IPMI based user management
 Added security with SSL (HTTPS)
 Multiple user permission level
 Multiple user profiles
- Web-based Configuration**
 Full configuration using web UI
 Fail-safe firmware upgrade
 Multi-language support in Web interface
- Dimensions (L x W)**
 68mm x 40mm (iRIS-2400)
 30mm x 30mm (iRIS-1010)
- Weight (NW)**
 12g (iRIS-2400)
 4g (iRIS-1010)

Easy to Install

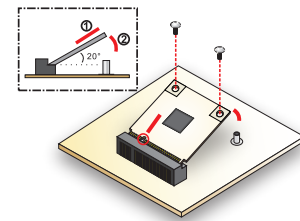
iRIS-2400 slot (90°)



iRIS-2400 slot (180°)



iRIS-1010 slot



Conclusion

As mentioned in the introduction, more and more devices need to be organized by a smart way. iRIS module is able to support a variety of working environments, and to run in different operating systems. Moreover, iRIS solution can not only help you to manage devices, but also bring more convenience into your business for increasing working efficiency and reducing system failure probability.

IEI iRIS Solution

Intel® Skylake Project		
Project	Form Factor	IPMI Solution
SPCIE-C2360-i2	PICMG 1.3	iRIS-2400
PCIE-Q170-i2	PICMG 1.3	iRIS-2400
IMBA-C236-i2	ATX	iRIS-2400
IMBA-Q170-i2	ATX	iRIS-2400
Intel® Broadwell-DE Project		
IMBA-BDE	ATX	iRIS-2500 (on board)
Intel® Haswell Projects		
SPCIE-C2260-i2	PICMG 1.3	iRIS-2400
PCIE-Q870-i2	PICMG 1.3	iRIS-2400
IMBA-C2260-i2	ATX	iRIS-2400
IMBA-Q870-i2	ATX	iRIS-2400
IMB-Q870-i2	microATX	iRIS-2400
IMB-H810-i2	microATX	iRIS-2400
KINO-DQM871-i1	Mini-ITX	iRIS-1010
NANO-QM871-i1	EPIC	iRIS-1010
WAFER-ULT/ULT2-i1	3.5"	iRIS-1010
Intel® Bay Trail		
KINO-ABT-i2	Mini-ITX	iRIS-2400
NANO-BT-i1	EPIC	iRIS-1010
WAFER-BT-i1	3.5"	iRIS-1010
AMD R-series		
KINO-DA750-i2	Mini-ITX	iRIS-2400
KINO-AA750-i2	Mini-ITX	iRIS-2400

AMD G-series		
Project	Form Factor	IPMI Solution
KINO-KBN/SE-i2	Mini-ITX	iRIS-2400
NANO-KBN/SE-i1	EPIC	iRIS-1010
WAFER-KBN-i1	3.5"	iRIS-1010
Embedded Box		
IDS-200-i2	AMD R-series (A70)	iRIS-2400
TANK-6000	Intel® Haswell (C226)	iRIS-2400 (on board)
TANK-760	Intel® Haswell (HM86)	iRIS-2400
TANK-870	Intel® Skylake (Q170)	iRIS-2400
TANK-860	Intel® Haswell (HM86)	iRIS-2400
TANK-801	Intel® Bay Trail (J1900)	iRIS-2400
DRPC-120	Intel® Bay Trail (E3845)	iRIS-2400
SBOX-QM87	Intel® Haswell (QM87)	iRIS-2400
ECN-380	Intel® Haswell (QM87)	iRIS-1010
ECW-281B-BTi	Intel® Bay Trail (J1900)	iRIS-1010
Panel PC		
PPC-FxxA-H81	Intel® Haswell (H81)	iRIS-2400
PPC-FxxA-BT	Intel® Bay Trail (J1900)	iRIS-2400
PPC-FXXB-BT	Intel® Bay Trail (J1900)	iRIS-2400
POC-W22A-H81	Intel® Haswell (H81)	iRIS-2400
SxxA-QM87	Intel® Haswell (QM87)	iRIS-2400