Prima-IP

KVM Switches with Secure Remote Access over IP

Reliable and High Performance Solution for Cost Effective and Secure Remote Management of Servers.

- **High video quality through the IP connection up to 1600 x 1200 or 1680 x 1050**
- **Win-32 viewer and Java viewer for cross-platform compatibility, fast mouse response time**
- **Can control 128 computers with one IP address when stacked with cheaper Prima KVM switches**
- **Remote power on/off support when using ioPower or any other power control device**
- **High compression permitting to work with connection bandwidth as low as 33 Kbps**
- **Ultra-security with full 1024-bit PKI authentication and 256-bit SSL encryption with ephemeral keys**
- **Remote selection of channel from viewer interface by click on computer icon**
- **Simultaneous access from multiple remote users, no remote user limitation**
- **Metal casing, 19" 1U rack format**

Quality and Compatibility: PRIMA IP KVM switches are robust and durable. Their metal enclosure provides good shielding against electromagnetic interferences commonly seen in lab or factory environments. They are intended for corporate server rooms and industrial floors. They can support all VGA resolutions up to 1600x1200@60Hz across the IP connection. The perfect keyboard/mouse emulation provides high compatibility with computers and operating systems.

Keep Alive System: One controller per port directly powered by the computer through its attachment cable keeps the mouse and keyboard emulation alive even when the switch is not alive. The servers will never lose their peripherals.

Local Console: You can connect a local PS2 keyboard, mouse, and a VGA monitor to PRIMA IP. The local user sees the same screen as remote users, but the mouse is faster because there is no transmission delay. The local user can select the computer and can do a restricted set of configurations by using the local OSD function.

Stacking System: PRIMA IP can be the master of a stack of eight PRIMA KVM switches, increasing the possible number of computers under local and remote control to 128. Remotely, any server in the stack can be selected by a simple mouse click.
The stacking system, which is much better than the simple port cascade provided by most of competitors, permits to maintain exactly the same high video quality whatever how many switches are inter-connected.

Network Connections: PRIMA IP is connected to an Ethernet LAN and can access the Internet by using the normal gateway. A PPP server and a PPP client provide an extra connection through the high-speed 1-Mbps RS232 port for direct connections over a simple telephone line, or redundant connection to the Internet.

USB and PS/2 on Computer Interfaces: All computer ports support both USB and PS/2. We provide combo cables that can connect to PS/2 as well as USB computer ports.

Remote Access: To access remote computers from your PC, just use an ordinary web-browser and a thin win32 or Java® viewer software. All you need is to login the PRIMA IP and download the viewer program.

Power Control: PRIMA IP can drive most of power supply units of the market that are controlled through a local RS232 connection. Using a power supply unit makes it possible to remotely power off and power on the servers individually with a simple mouse click.

Monitoring and Alarms: PRIMA IP can survey the servers and detect several symptoms revealing a mal functioning machine. When a faulty server has been identified, it can generate alarm emails describing the problem to several destinations. It can also send SNMP traps to an SNMP manager.

Security: PRIMA IP distinguishes itself among its peer

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products not only in its stability, but also in its industry-standard security features such as full 1024-bit PKI authentication and 256-bit SSL data encryption.

You can choose from among three security levels, in combination with three types of password policies, and three categories of user privileges. When the full PKI is in service, you must provide a set of certificates permitting a bidirectional authentication of the remote user by PRIMA IP and PRIMA IP by the remote user. These certificates can be managed internally in your company or bought from an official CA such as Verisign for example. The PROSUM technical support can help you to manage and generate your certificates.

User Authentication: PRIMA IP can get the user ID/ Password and privilege by reading a locally managed database. It can also use standard requests to LDAP / RADIUS / Active Directory servers, if your company has already set up a centralized management of users.

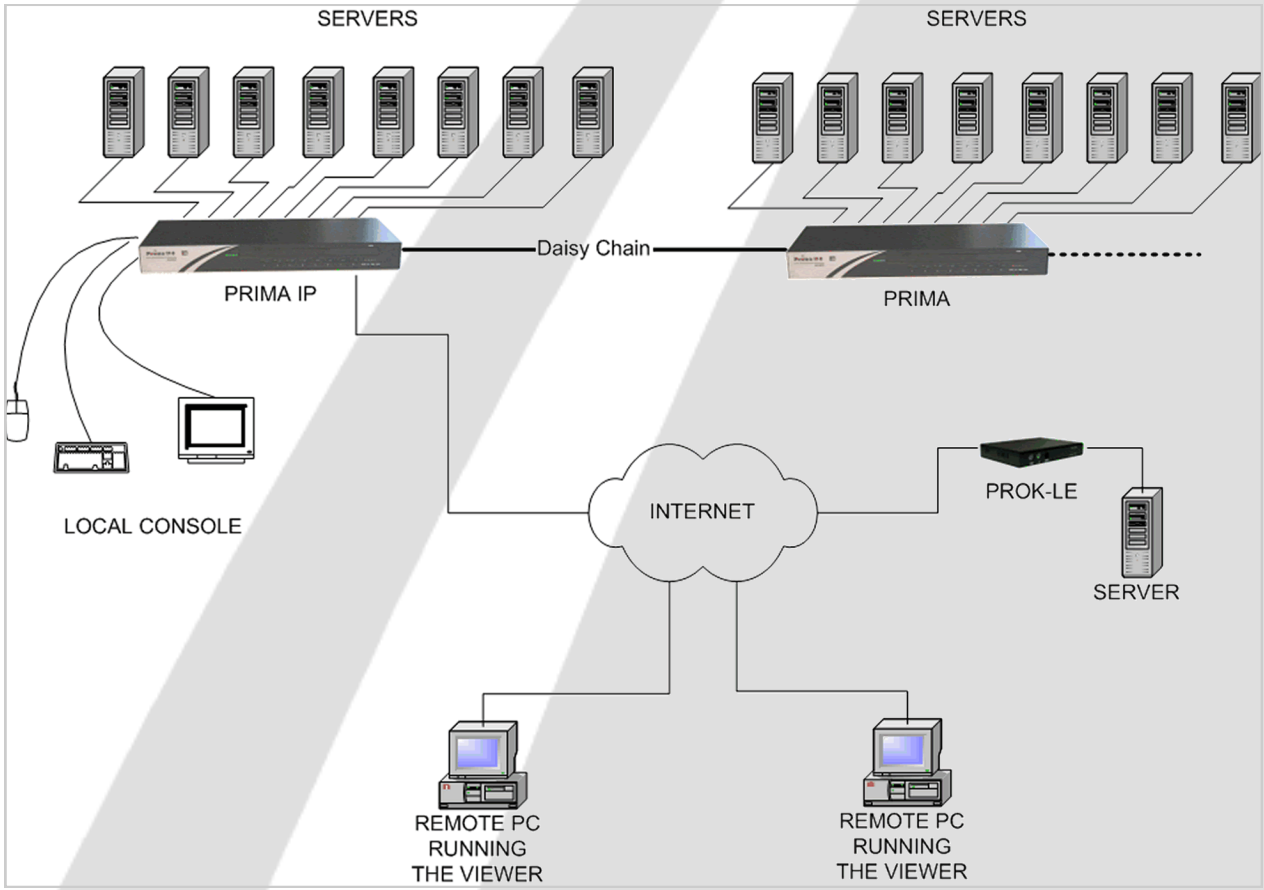
User Profiling: PRIMA IP permits to create groups and user profiles. Each user is attached to a specific group and can access only those computers that are within that group. Groups can be managed locally or can be provided by remote RADIUS or LDAP servers.

Software Upgrades: From time to time PROSUM provides software upgrades that can be uploaded into the PRIMA IP by using the web based management. If the PRIMA IP is chained with several other PRIMA KVM switches, it proceeds automatically to the upgrade of all KVMs in the chain.

Cable Assembly: Clean cable assemblies integrating VGA, PS/2 and USB attachments permit to connect the computers to the PRIMA ports. They are available in 1.8m, 3m, 5m and 10m lengths.

Delivery: PRIMA KVM switches are delivered with all their accessories (power adapter, cables, and rack mount kit).

Warranty and Technical Support: PROSUM provides one-year warranty and free technical support.



PRIMA IP and PROKLE use same viewer and similar remote management
PRIMA IP can control up to 128 computers

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Technical Specifications

Main Processor:	ARM Intel IXP425 at 533 MHz
Computer-port controllers:	One controller per port powered by the computer for USB/PS2 keyboard and mouse emulation.
Main Memory:	32 MB
Main Flash:	16 MB
VGA Capture and Compression	Hardware, special ASIC
Server/KVM Port Connectors:	HDB15-pin Male + special cable assembly providing VGA, PS/2 and USB mouse and keyboard connectors.
Local Console Connectors:	PS/2 Keyboard 6-pin Mini Din female; PS/2 Mouse 6 pin Mini Din female; VGA HDB 15-pin Female
Ethernet Interface:	RJ-45 connector, 10/100 BASE-T connection with auto-sensing
Serial Console Port:	RJ-12 connector / 115200 bps max - Used only for console management
Serial High Speed Port:	RJ-12 / 1Mpbs high-speed serial for connection to external modem or power control device
Video Resolution through IP:	1600 × 1200 @ 60HZ max
Viewers	Win32 viewer / JAVA viewer
Management:	With any browser connected to the embedded web server via HTTPS secure connection
Security:	SSL, Encryption with 256-bit ephemeral keys User/server authentication based on password and PKI certificates
Keyboard and Mouse Emulation:	PS/2 and USB
Remote Power ON/OFF:	By use of an optional power unit connected to the serial port
Power supply	External DC 9V 4A
Operation Temperature:	0 to 50°C
Storage Temperature:	-20 to 60°C
Humidity:	0 to 90%, non-condensing
Housing:	Metal
Dimension (L x W x H):	410 x 165 x 44.5 mm (1U)
Weight:	2000 g (8) 2150 g (16)
Safety / EMI Certification:	FCC, CE

Ordering Information

PRIMA IP-8: 8-port IP KVM Switch	
PRIMA IP-16: 16-port IP KVM Switch	
CAB2067-1.8M: 1.8m cable for USB and PS/2 attachment	
CAB2067-3.0M: 3.0m cable for USB and PS/2 attachment	
CAB2067-5.0M: 5.0m cable for USB and PS/2 attachment	

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