

# **KL9108**

1-Local/1-Remote Access 8-Port PS/2 VGA Dual Rail LCD KVM over IP Switch



The KL9108 is an IP-based KVM control unit that allows both local and remote operators to monitor and access multiple computers from multiple consoles. A single KL9108 can control up to 8 computers and can be accessed from any computer on the Net. The KL9108 features independently retractable 17" LCD monitor and keyboard with built-in touchpad. To maximize space in your data center the keyboard"hides away"when not in use, while the thin profile LCD monitor provides continuous monitoring of computers.

KL9108M: 17" LCD





#### Features

- Integrated KVM console with 17" LCD monitor in a Dual Rail housing
- Space saving technology with dual bus function support 1 remote console (one bus) and two local consoles (one bus) control up to 8 computers
- Dual-bus one local and one remote user can simultaneously control separate ports
- · Remotely access computers via the LAN, WAN, or Internet control your installation when and where you want
- Dual Rail housing is slightly less than 1U with top and bottom clearance for smooth operation in 1U of rack space
- Extra console port manage computers in the LCD KVM switch from an external console (monitor, PS/2 keyboard, and PS/2 mouse)
- Supports external PS/2 mouse
- Dual Rail LCD monitor slides independently of the keyboard/touchpad
- LCD module rotates up to 120 degrees for a more comfortable viewing angle
- · Console lock enables the console drawer to remain securely locked away in position when not in use
- · Supports dedicated OSD and OSD Toolbar invocation keys
- Internet browser access, Windows Client and Java Client provided, Java Client works with all operating systems
- · Graphical OSD and graphical toolbars for convenient, user-friendly operation
- Up to 64 user accounts up to 32 concurrent remote logins
- · Panel Array Mode view all 8 ports at the same time.
- Message board feature allows logged in users to communicate with each other and allows a remote user to take exclusive control of the KVM functions
- · Windows-based Log Server
- Remote power control for attached Power Over the NET<sup>™</sup> devices
- Three level login security: Administrator, User, and Select
- Advanced security features include password protection and advanced encryption technologies 1024 bit RSA, 256 bit AES, 56 bit DES, and 128 bit SSL
- RADIUS server support
- Ports can be set to Exclusive, Occupy and Share
- Network Interfaces: TCP/IP, HTTP, HTTPS, UDP, RADIUS, DHCP, SSL, ARP, DNS, 10Base-T/100Base-TX, auto sense, Ping
- · Flash firmware upgradable over network connection
- Keyboard Language support: English(US); English(UK); German;German(Swiss); French; Spanish; Traditional Chinese; Japanese; Korean;Swedish; Italian; Russian; Hungarian; Greek
- Super A-Grade TFT LCD Panel; Zero Dead Pixel Guarantee
- Multiplatform support: Windows 2000/XP/Vista, Linux, Unix and FreeBSD.
- For more information about KVMs which can connect to KL9108, see Compatible KVM Table

#### Specification

| Computer Connections |   |  |
|----------------------|---|--|
| Direct               | 8   |  |
| Maximum              | 64 (via Cascade)  |  |
| Console Connections  |   |  |
| Local                | 1   |  |
| Remote               | 1   |  |
| Port Selection       | OSD, Hotkey, Pushbuttons  |  |
| Connectors           |   |  |
| Console Ports        | 1 x 6-pin Mini-DIN Female (Purple)<br>1 x 6-pin Mini-DIN Female (Green)<br>1 x HDB-15 Female (Blue) |  |
| KVM Ports            | 8 x SPHD-15 Female (Yellow)   |  |
| Power                | 1 x IEC 60320/C14   |  |
| External Mouse Port  | 1 x 6-pin Mini-DIN Female (Green)   |  |
| LAN Ports            | 1 x RJ-45 Female (Black)  |  |
| PON                  | 1 x DB-9 Male (Black)   |  |

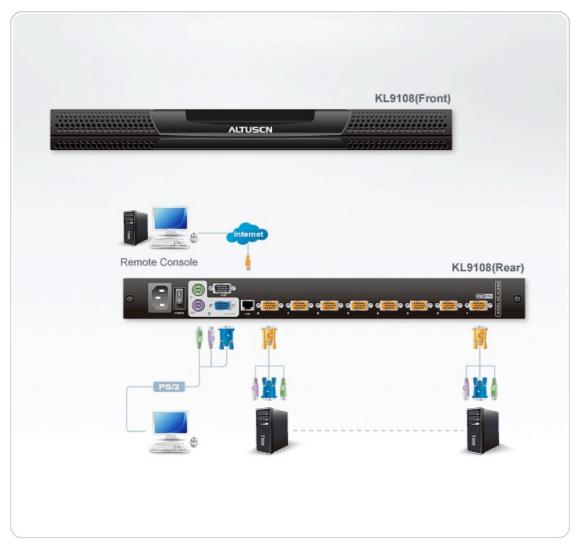


| Switches       Resel     1 x Semi-recessed Pushbutton       Port Selection     2 x Pushbutton       Power     1 x Rocker       LCO Power     4 x Pushbutton       LCD Adjustment     4 x Pushbutton       LEDs         Online     8 (Green)       Soloclod     8 (Green)       Soloclod     8 (Green)       Soloclod     8 (Green)       Soloclod     8 (Green)       Look     1 (Blue)       Look     1 (Green)       10/100 Mbps     1 (Green)       10/100 Mbps     1 (Green)       10/100 Mbps     1 (Green)       Video     1280 x 10246975Hz: DDC28 (Local):<br>1800 x 1020696Hz: DDC28 (Local):<br>180  | 0.154.5           |  |  |  |
|--|-------------------|--|--|--|
| Prof Selection     2 × Purbhutton       Power     1 x Rocker       LCD Power     1 x Purbhutton       LCD Adjustment     4 x Purbhutton       LEDs   | Switches          | Switches   |  |  |
| Power     1 x Rocker       LCD Power     1 x Pushbutan       LCD Adjustment     4 x Pushbutan       LCD Adjustment     4 x Pushbutan       LEDs  | Reset             | 1 x Semi-recessed Pushbutton   |  |  |
| LCD Power     1 x Pushbutton       LCD Adjustment     4 x Pushbutton       LEDs        Online     8 (Green)       Selected     8 (Orange)       Power     1 (Blue)       Lock     1 x Num Lock(Green)<br>1 x Cape Lock(Green)       Lock     1 x Num Lock(Green)<br>1 x Cape Lock(Green)       Lock     1 (Green)       Link     1 (Green)       Link     1 (Green)       Emulation        Keyboard / Mouse     PS/2       Video     1280 x 1024@75Hz; DDC2B (Local);<br>1500 x 1200@60Hz; DDC2B (Local);<br>1600 x 1200@60Hz; DDC2B (Local);<br>170 x Hz; DDC2B (Local);<br>180 x 1200 x Hz; DDC2B (Local);<br>180 x Hz; DDC2B (Local);<br>180 x Hz; DDC2B (Local);<br>180 x Hz; DDC2B (Local);<br>180 x                                      | Port Selection    | 2 x Pushbutton   |  |  |
| LCD Adjustment     4 x Pushbutten       LEDs   | Power             | 1 x Rocker   |  |  |
| LEDs       Online     8 (Green)       Selected     8 (Orange)       Power     1 (Blue)       Lock     1 × Num Lock(Green)<br>1× Cass Lock(Green)<br>1× Cass Lock(Green)       Link     1 (Green)       10/100 Mbps     1 (Orange/Green)       Emulation     1 (Orange/Green)       Keyboard / Mouse     PS/2       Video     1280 v 1024@75Hz: DDC28 (Local);<br>1600 x 1200@60Hz; DDC28 (Local);<br>1600 x 1200@60Hz; DDC28 (Local);<br>1600 x 1200@60Hz; DDC28 (Remote)       Scan Interval     1-255 Soc.       Maximum Input Power<br>Rating     100-240V AC; 50-60Hz; 1A       Power Consumption     120V/31W; 230V/39W<br>Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTUh indicates the power consumption of the device with no external loading.<br>• The measurement in BTUh indicates the power consumption of the device with no external loading.<br>• The measurement in BTUh indicates the power consumption of the device when it is fully loaded.       Panel Spec     S ms       Response time     S ms       LCD Module     17* TFT-LCD       Pixel Ptlch     0.284 mm x 0.284 mm       Support Color     16.7M colors       Support Color     16.7M colors       Contrast Ratio </td <td>LCD Power</td> <td>1 x Pushbutton</td>   | LCD Power         | 1 x Pushbutton   |  |  |
| Online     8 (Green)       Selected     8 (Orange)       Power     1 (Blue)       Lock     1 × Num Lock(Green)<br>1 × Cape Lock(Green)<br>1 × Scroll Lock(Green)       Link     1 (Green)       10'100 Mbps     1 (Orange/Green)       Emulation     1 (Orange/Green)       Keyboard / Mouse     PS/2       Video     1280 × 1024@75Hz : DDC28 (Local);<br>1600 × 1200@60Hz : DDC28 (Remote)       Scan Interval     1-255 Sec.       Maximum Input Power<br>Rating     100-240V AC; 50-60Hz; 1A       Power Consumption     120V/31W; 230V/39W<br>Note:<br>- The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>- The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>- The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>- The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>- The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>- The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>- The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>- The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>- The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>- The measurement in Watts indicates the typical pow | LCD Adjustment    | 4 x Pushbutton   |  |  |
| Selected     8 (Orange)       Power     1 (Blue)       Lock     1 × Num Lock(Green)<br>1 × Caps Lock(Green)<br>1 × Scroll Lock(Green)       Link     1 (Green)       10'100 Mbps     1 (Orange/Green)       Emulation     Emulation       Keyboard / Mouse     PS/2       Video     1280 × 1024@75Hz; DDC28 (Local);<br>1600 × 1200@60Hz; DDC28 (Remote)       Scan Interval     1-255 Sec.       Maximum Input Power     100-240V AC; 50-60Hz; 1A       Power Consumption     120V/31W; 230V/39W       Note:<br>• The measurement in Watts indicates the typical power consumption of the device when it is fully loaded.       Power Consumption     120V/31W; 230V/39W       Note:<br>• The measurement in BTUh indicates the typical power consumption of the device when it is fully loaded.       Panel Spec     *       Response time     5 ms       LoD Module     17" TFT-LCD       Pixel Pitch     0.264 mm x 0.264 mm       Support Color     16.7M colors       Contrast Ratio     1000:1       Luminance     250 cd/m²       Vewing Angle     170" (H), 160" (V)  | LEDs              | LEDs   |  |  |
| Power     1 (Blue)       Lock     1 × Num Lock(Green)<br>1 × Gaps Lock(Green)<br>1 × Soroll Lock(Green)       Link     1 (Green)       10/100 Mbps     1 (Green)       10/100 Mbps     1 (Green)       Emulation     1 (Green)       Keyboard / Mouse     PS/2       Video     1280 x 1024@75Hz; DDC28 (Local);<br>1600 x 1200@60Hz; DDC28 (Local);<br>1600 x 1200@60Hz; DDC28 (Remote)       Scan Interval     1-255 Sec.       Maximum Input Power<br>Rating     100-240V AC; 50-60Hz; 1A       Power Consumption     120V/31W; 230V/39W<br>Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is tuily loaded.       Panel Spec     Sms       Response time     5 ms       LCD Module     17" TFT-LCD       Pixel Pitch     0.264 mm       Support Color     16.7M colors       Support Color     16.7M colors       Contrast Ratio     1000:1       Luminance     250 odm²       Viewing Angle     170° (H), 160° (V)   | Online            | 8 (Green)  |  |  |
| Lock     1 × Num Lock(Green)<br>1 × Goroll Lock(Green)       Link     1 (Green)       10/100 Mbps     1 (Green)       Emulation     Image/Green)       Emulation     PS/2       Video     1280 × 1024@75Hz; DDC28 (Local);<br>1600 × 1200@60Hz; DDC28 (Local);<br>1600 × 1200@60Hz; DDC28 (Local);<br>1600 × 1200@60Hz; DDC28 (Remote)       Scan Interval     1-255 Sec.       Maximum Input Power<br>Rating     100-240V AC; 50-60Hz; 1A       Power Consumption     120V/31W; 230V/39W<br>Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is tully loaded.       Panel Spec     Sms       Response time     5 ms       LCD Module     17" TFT-LCD       Pixel Pitch     0.264 mm       Support Color     16.7M colors       Contrast Ratio     1000:1       Luminance     250 cd/m <sup>a</sup>   | Selected          | 8 (Orange)   |  |  |
| 1 x Caps Lock(Green)Link1 (Green)10/100 Mbps1 (Orange/Green)EmulationKeyboard / MousePS/2Video1280 x 1024@75Hz; DDC2B (Local);<br>1600 x 1200@60Hz; DDC2B (Remote)Scan Interval1-255 Sec.Maximum Input Power<br>Rating100-240V AC; 50-60Hz; 1APower Consumption120V/31W; 230V/39W<br>Note:<br>• The measurement in BTU/h indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.Panel Spec5 msResponse time5 msLCD Module17" TFT-LCDPikel Pitch0.264 mm x 0.264 mmSupport Color16.7M colorsLuminance250 cd/m²Viewing Angle170° (H), 160° (V)  | Power             | 1 (Blue)   |  |  |
| 10/100 Mbps   1 (Orange/Green)     Emulation     Keyboard / Mouse   PS/2     Video   1280 x 1024@75Hz; DDC2B (Local);<br>1600 x 1200@60Hz; DDC2B (Remote)     Scan Interval   1-255 Sec.     Maximum Input Power   100-240V AC; 50-60Hz; 1A     Power Consumption   120V/31W; 230V/39W<br>Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.     Panel Spec   Sama     Response time   5 ms     LCD Module   17" TFT-LCD     Pixel Pitch   0.264 mm x 0.264 mm     Support Color   16.7M colors     Contrast Ratio   1000:1     Luminance   250 cd/m²     Viewing Angle   170" (H), 160° (V)   | Lock              | 1 x Caps Lock(Green)   |  |  |
| Emulation     Keyboard / Mouse   PS/2     Video   1280 x 1024@75Hz; DDC2B (Local);<br>1600 x 1200@60Hz; DDC2B (Remote)     Scan Interval   1-255 Sec.     Maximum Input Power<br>Rating   100-240V AC; 50-60Hz; 1A     Power Consumption   120V/31W; 230V/39W     Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.     Panel Spec   5 ms     ILCD Module   17" TFT-LCD     Pixel Pitch   0.264 mm x 0.264 mm     Support Color   16.7M colors     Contrast Ratio   1000:1     Luminance   250 cd/m²     Viewing Angle   170° (H), 160° (V)   | Link              | 1 (Green)  |  |  |
| Keyboard / Mouse     PS/2       Video     1280 x 1024@75Hz; DDC2B (Local);<br>1600 x 1200@60Hz; DDC2B (Remote)       Scan Interval     1-255 Sec.       Maximum Input Power<br>Rating     100-240V AC; 50-60Hz; 1A       Power Consumption     120V/31W; 230V/39W<br>Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.       Panel Spec     5 ms       Response time     5 ms       LCD Module     17" TFT-LCD       Pixel Pitch     0.264 mm x 0.264 mm       Support Color     16.7M colors       Contrast Ratio     1000:1       Luminance     250 col/m <sup>2</sup> Viewing Angle     170° (H), 160° (V)   | 10/100 Mbps       | 1 (Orange/Green)   |  |  |
| Video1280 x 1024@75Hz; DDC2B (Local);<br>1600 x 1200@60Hz; DDC2B (Remote)Scan Interval1-255 Sec.Maximum Input Power<br>Rating100-240V AC; 50-60Hz; 1APower Consumption120V/31W; 230V/39W<br>Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.Panel SpecResponse time5 msLCD Module17" TFT-LCDPixel Pitch0.264 mm x 0.264 mmSupport Color16.7M colorsContrast Ratio1000:1Luminance250 cd/m²Viewing Angle170° (H), 160° (V)   | Emulation         |  |  |  |
| 1600 x 1200@60Hz; DDC2B (Remote)Scan Interval1-255 Sec.Maximum Input Power<br>Rating100-240V AC; 50-60Hz; 1APower Consumption120V/31W; 230V/39W<br>Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.Panel SpecResponse time5 msLCD Module17" TFT-LCDPixel Pitch0.264 mm x 0.264 mmSupport Color16.7M colorsContrast Ratio1000:1Luminance250 cd/m²Viewing Angle170° (H), 160° (V)  | Keyboard / Mouse  | PS/2   |  |  |
| Maximum Input Power<br>Rating100-240V AC; 50-60Hz; 1APower Consumption120V/31W; 230V/39W<br>Note:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.Panel SpecResponse time5 msLCD Module17" TFT-LCDPixel Pitch0.264 mm x 0.264 mmSupport Color16.7M colorsContrast Ratio1000:1Luminance250 cd/m²Viewing Angle170° (H), 160° (V)   | Video             | 1280 x 1024@75Hz; DDC2B (Local);<br>1600 x 1200@60Hz; DDC2B (Remote)                                       |  |  |
| Rating120V/31W; 230V/39WPower Consumption120V/31W; 230V/39WNote:<br>• The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>• The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.Panel SpecResponse time5 msLCD Module17" TFT-LCDPixel Pitch0.264 mm x 0.264 mmSupport Color16.7M colorsContrast Ratio1000:1Luminance250 cd/m <sup>2</sup> Viewing Angle170° (H), 160° (V)   | Scan Interval     | 1-255 Sec.   |  |  |
| Note:<br>• The measurement in Watts indicates the typical power consumption of the device when it is fully loaded.Panel SpecResponse time5 msLCD Module17" TFT-LCDPixel Pitch0.264 mm x 0.264 mmSupport Color16.7M colorsContrast Ratio1000:1Luminance250 cd/m²Viewing Angle170° (H), 160° (V)   |                   | 100-240V AC; 50-60Hz; 1A   |  |  |
| • The measurement in Watts indicates the typical power consumption of the device with no external loading.     • The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.     Panel Spec     Response time   5 ms     LCD Module   17" TFT-LCD     Pixel Pitch   0.264 mm x 0.264 mm     Support Color   16.7M colors     Contrast Ratio   1000:1     Luminance   250 cd/m²     Viewing Angle   170° (H), 160° (V)  | Power Consumption | 120V/31W; 230V/39W   |  |  |
| Response time5 msLCD Module17" TFT-LCDPixel Pitch0.264 mm x 0.264 mmSupport Color16.7M colorsContrast Ratio1000:1Luminance250 cd/m²Viewing Angle170° (H), 160° (V)   |                   | • The measurement in Watts indicates the typical power consumption of the device with no external loading. |  |  |
| LCD Module17" TFT-LCDPixel Pitch0.264 mm x 0.264 mmSupport Color16.7M colorsContrast Ratio1000:1Luminance250 cd/m²Viewing Angle170° (H), 160° (V)  | Panel Spec        |  |  |  |
| Pixel Pitch0.264 mm x 0.264 mmSupport Color16.7M colorsContrast Ratio1000:1Luminance250 cd/m²Viewing Angle170° (H), 160° (V)   | Response time     | 5 ms   |  |  |
| Support Color   16.7M colors     Contrast Ratio   1000:1     Luminance   250 cd/m²     Viewing Angle   170° (H), 160° (V)  | LCD Module        | 17" TFT-LCD  |  |  |
| Contrast Ratio 1000:1   Luminance 250 cd/m²   Viewing Angle 170° (H), 160° (V)   | Pixel Pitch       | 0.264 mm x 0.264 mm  |  |  |
| Luminance 250 cd/m²   Viewing Angle 170° (H), 160° (V)   | Support Color     | 16.7M colors   |  |  |
| Viewing Angle 170° (H), 160° (V)   | Contrast Ratio    | 1000:1   |  |  |
|  | Luminance         | 250 cd/m <sup>2</sup>  |  |  |
| Environmental  | Viewing Angle     | 170° (H), 160° (V)   |  |  |
|  | Environmental     |  |  |  |



| Operating Temperature  | 0 - 50°C  |  |
|------------------------|---|--|
| Storage Temperature    | -20 - 60°C  |  |
| Humidity               | 0-80% RH, Non-condensing  |  |
| Physical Properties    |   |  |
| Housing                | Metal   |  |
| Weight                 | 17.05 kg(37.56 lb)  |  |
| Dimensions (L x W x H) | 48.20 x 70.63 x 4.40 cm<br>(18.98 x 27.81 x 1.73 in.)   |  |
| Note                   | For some of rack mount products, please note that the standard physical dimensions of WxDxH are expressed using a LxWxH format. |  |

### Diagram





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