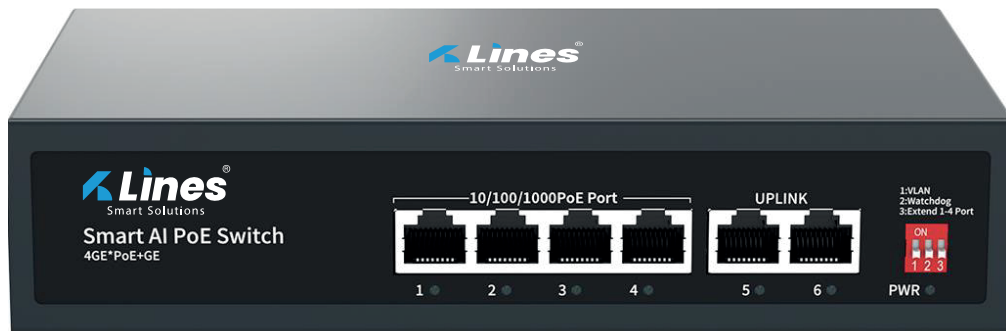


## Full-Gigabit 4+2 Smart PoE Switch



### Product Overview

The KL-004G-4+2GE series unmanaged intelligent PoE switch adopts a high-performance non-blocking enterprise-grade network switch IC and a standard PoE chip. It features four Gigabit PoE ports and two Gigabit uplink power ports, providing seamless connectivity for 10/100/1000M Ethernet. Ports 1-4 support IEEE 802.3af/at standard PoE power supply, with a single-port PoE power output of up to 30W. All service ports support 4KV lightning protection and feature one-click port VLAN functionality, PoE watchdog automatic troubleshooting, 200-meter long-distance transmission, and other AI modes to ensure efficient project network implementation and reduce maintenance costs. It is suitable for building cost-effective networks in scenarios such as security monitoring, smart cities, schools, industrial parks, hotels, banks, hospitals, government and enterprise clients, scenic spots, supermarkets, and small and medium-sized enterprises.

## KL-004G-4+2GE Series Smart PoE Switch Product Specifications

Unmanaged models are plug-and-play, require no configuration, and are simple and convenient to use.

### Technical Parameters

| model                                                                                                                                              |               | KL-004G-4+2GE                                                                                                                                                                                                                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Port characteristics                                                                                                                               |               |                                                                                                                                                                                                                                   |  |
| Fixed port                                                                                                                                         | Downlink Port | 4 x 10/100/1000 Base -T RJ45 Ethernet ports                                                                                                                                                                                       |  |
|                                                                                                                                                    | Uplink port   | Two 10/10 0/1000 Base-T RJ45 network ports                                                                                                                                                                                        |  |
|                                                                                                                                                    | PoE port      | Ports 1-4 support PoE power supply according to AF/AT standards, with a transmission distance of up to 200 meters.                                                                                                                |  |
| Network port features                                                                                                                              |               | 10/100/1000M adaptive , full / half duplex MDI/MDI-X adaptive                                                                                                                                                                     |  |
| Twisted pair transmission                                                                                                                          |               | 10BASE-T: Cat3,4,5 UTP ( ≤ 10 0 meter)<br>100BASE-TX : Cat5 or later UTP( ≤ 100 meter)<br>100 0 BASE-T : Cat 5e or later UTP ( ≤ 100 meter)                                                                                       |  |
| DIP switch                                                                                                                                         | 1st gear      | Port VLAN function                                                                                                                                                                                                                |  |
|                                                                                                                                                    | 2nd gear      | PoE Watchdog                                                                                                                                                                                                                      |  |
|                                                                                                                                                    | 3rd gear      | 1-4 port long-distance transmission                                                                                                                                                                                               |  |
| Note: The above function switches are in the "OFF" state by default. They are turned on when set to "ON". Each function can be used independently. |               |                                                                                                                                                                                                                                   |  |
| Exchange chip parameters                                                                                                                           |               |                                                                                                                                                                                                                                   |  |
| Network Management Type                                                                                                                            |               | Non-network management                                                                                                                                                                                                            |  |
| Network Protocol                                                                                                                                   |               | IEEE802.3 10Base-T; IEEE802.3i 10Base-T;<br>IEEE 802.3u 100Base-TX;<br>IEEE 802.3x Flow Control;<br>IEEE 802.3ab 1000Base-T ;<br>IEEE 802.3 z 1000Base- X ;<br>IEEE 802.3af DTE Power via MDI;<br>IEEE 802.3at DTE Power via MDI; |  |
| Forwarding mode                                                                                                                                    |               | Store-and-forward (full line speed)                                                                                                                                                                                               |  |
| Backplane bandwidth                                                                                                                                |               | 12 Gbps (non-blocking )                                                                                                                                                                                                           |  |
| Packet forwarding rate @ 64 bytes                                                                                                                  |               | 8.93 Mpps                                                                                                                                                                                                                         |  |
| MAC address table                                                                                                                                  |               | 2K                                                                                                                                                                                                                                |  |
| Packet forwarding cache                                                                                                                            |               | 2Mb                                                                                                                                                                                                                               |  |
| Giant Frame                                                                                                                                        |               | 9.2K                                                                                                                                                                                                                              |  |
| LED indicator light                                                                                                                                |               | Power indicator : PWR ( green ) ; Network indicator: 1-6 (green)                                                                                                                                                                  |  |
| MTBF                                                                                                                                               |               | 100,000+ hours                                                                                                                                                                                                                    |  |

## KL-004G-4+2GE Series Smart PoE Switch Product Specifications

| PoE and power characteristics                      |                                                                       |
|----------------------------------------------------|-----------------------------------------------------------------------|
| PoE port                                           | 1-4 support IEEE 802.3af/at standard PoE power supply.                |
| Power supply pin                                   | Default 1/2(+), 3/6(-) 4-pin power supply                             |
| Maximum PoE power per port                         | 30W, standard IEEE802.3af/at                                          |
| Total power / input voltage                        | 65 W ( AC100-240V )                                                   |
| Overall power consumption                          | Standby power consumption: < 3 W; Full load power consumption: < 65 W |
| power supply                                       | Built-in switching power supply AC: 100 ~ 240V 50-60Hz 1.0 A          |
| Physical specifications                            |                                                                       |
| Operating temperature/humidity                     | -20 to +55°C; 5% to 90% RH non-condensing                             |
| Storage temperature/humidity                       | -40 to +75°C; 5% to 95% RH non-condensing                             |
| External dimensions / Packaging dimensions (L*W*H) | 200*118*44mm / 230*185*70mm                                           |
| Net weight/Gross weight                            | < 0.58 kg / < 0.70 kg                                                 |
| Installation method                                | Desktop and wall-mounted installation                                 |
| Product Certification and Warranty                 |                                                                       |
| Lightning protection/protection level              | Port surge protection: 4KV; Protection rating: IP 30                  |
| Electrostatic discharge (ESD) protection           | Contact discharge: 8KV; Air discharge: 15KV                           |
| Safety certification                               | CE , FCC , RoHS                                                       |
| Warranty period                                    | 1 year                                                                |
| equipment                                          | 1 unit                                                                |
| power cord                                         | 1 piece                                                               |
| Product Manual                                     | 1 copy                                                                |
| Warranty card and certificate of conformity        | 1 copy                                                                |

## Ordering Information

| Equipment Name       | Equipment Information                                                                                                                                                                                                                                                                                                                                                                   | Standard power supply |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| <b>KL-004G-4+2GE</b> | is a non-managed PoE switch with four 10/ 100/1000M Ethernet ports and two 10/ 100 /1000M uplink ports . Ports 1-4 support the IEEE 802.3af/at international standard , intelligent power supply detection, function switches, port VLAN isolation, PoE watchdog (automatic restart) function, long-distance transmission, and other AI functions. It also has a built-in power supply. | AC100-240 V           |

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