

# Technology For Life

# LEELLEN

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## Digital Network Distributor

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Xiamen Leelen Technology Co., Ltd.

No.65 Sunban South Road, Jimei North  
Industrial Zone, Jimei District, Xiamen

National Unified Service Hotline 95105895

Website: <http://en.leelen.com>



The product shall be subject to the actual equipment

## User's Manual V1.0

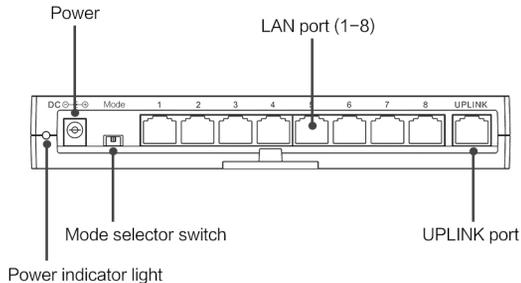
RP.K11.ZC-SM.010

## I. External view of equipment

### ① Front view of the product



### ② Hardware port diagram



## II. Hardware port description

No.	Name	Silk screen	Function definition
1	Power indicator light	None	It displays the connection state with the power and continuous and stable lighting indicates normal connection with the power.
2	Power access	DC ⊖ ⊕ ⊕	18 – 28VDC, supply power to the equipment through the external power.
3	Mode selector switch	Mode	There are a total of 3 positions, which are PoE10, PoE100 and Normal from the left silk screen to the right silk screen respectively, indicating simple PoE power supply 10 M mode, simple PoE power supply 100M mode, and non-power supply normal mode.
4	LAN port	1-8	It can be connected to the intelligent terminal equipment, and choose whether to provide simple PoE power supply for the terminal equipment according to different modes.
5	UPLINKS port	UPLINK	It is connected to the upper-level switch to achieve data exchange.
6	LAN port indicator light	None	Green light is a power supply indicator light (bright normally for external power supply); yellow light is a network indicator light (flash for data exchange).

## III. Technical specification parameters

Communication bandwidth: 10M/100Mbps adaptive

Network port: RJ-45 interface

LAN port: 8

UPLINK: 1

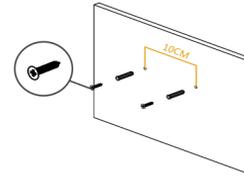
Operating voltage:	18~28VDC
Operating current:	The interchanger consumes the current of 20mA @24VDC
Maximum total input current:	3A
Operating temperature:	-25℃-70℃
External dimension:	200mm x 95mm x 30mm
Protection class:	IP30

#### IV. Functional characteristics

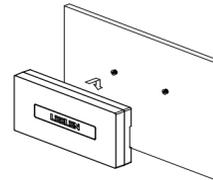
- The output voltage of the LAN port is the input voltage of the power input port of the network interchanger, and the maximum output current per port is 600mA.
- The UPLINK port can be connected to the upper-level interchanger to achieve the network data communication function.
- It provides three working modes, and you can choose whether to supply power for the connected equipment and also choose different output rates of the LAN port to meet the different needs of users
- It provides a short circuit protection function. In case of a short circuit in any LAN port, the network switch will cut off the power supply to the port without impact on the power supply to other ports; when the short circuit is released, it will automatically recover the power supply.
- It also supports the power supply through lines 1, 2, 3, 6 and lines 4,5,7,8, and 8-core (4 pairs) or 4-core (2 pairs) cable is optional to connect the terminal equipment. Where lines 1, 2, 4, 5 are the positive terminals of the power, and lines 3,6,7,8 are the ground lines; when the terminal load current is larger and the cable is more than 50m, it is recommended to use the 8-core network cable.

#### V. Installation diagram

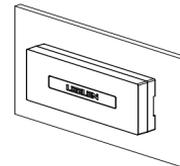
- ① Installation mode with rubber plug screws
  - Drill two screw holes spacing 10cm in a proper place, insert the rubber plug, and lock the screws.



- Align the vacancy on the back of the equipment with the screw head and hang the equipment on the screws.

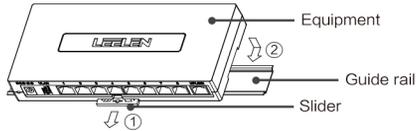


- The installation is completed.

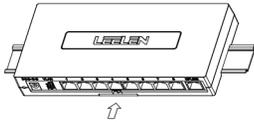


## ② Guide rail type installation mode

- Pull out the slider on the back of the equipment and attach the equipment to the rail rack of the machine box.

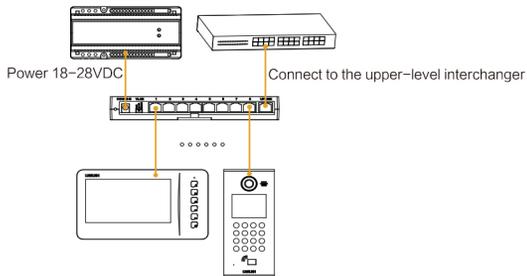


- Buckle the slider back to the equipment to complete the installation.



## VI. Description of system connection

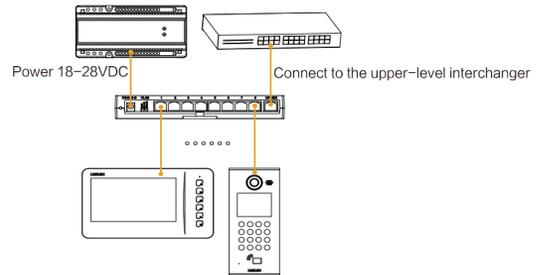
### ① Simple PoE Power Supply 10M Transmission Mode (PoE10)



### Notes:

- In this mode, the network transmission rate of ports 1 – 8 is 10M, and the network transmission rate of the UPLINK port is 10M/100M.
- Ports 1 – 8 and the UPLINK port can communicate with each other.
- Ports 1 – 8 can be connected to the intelligent terminal machine or the network outdoor unit, and provide simple PoE power supply.

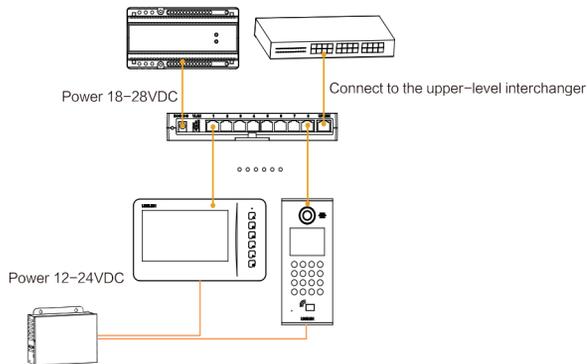
### ② Simple PoE Power Supply 100M Transmission Mode (PoE100)



### Notes:

- In this mode, the network transmission rates of ports 1 – 8 and the UPLINK port are 10M/100M adaptive.
- Ports 1 – 8 and the UPLINK port can communicate with each other.
- Ports 1 – 8 can be connected to the intelligent terminal machine or the network outdoor unit, and provide simple PoE power supply.

### 3 Non-power supply normal mode (Normal)



#### Notes:

- This is a non-power mode only as a network transmission function. The network transmission rates of Ports 1-8 and the UPLINK port are 10M/100M adaptive.
- Ports 1-8 and the UPLINK port can communicate with each other.
- Ports 1-8 can be connected to the intelligent terminal machine or the outdoor unit, but do not provide simple PoE power supply for the connected equipment.

### VII Restricted substances

Part Name	Toxic and hazardous substances or elements					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr6+)	Polybrominated biphenyl (PBB)	Polybrominated diphenyl ether (PBDE)
Metal part	O	O	O	O	O	O
Plastic part	O	O	O	O	O	O
CRT display screen	X	O	O	O	O	O
LCD screen	O	O	O	O	O	O
Circuit board component *	X	O	O	O	O	O
Power cord/cable	X	O	O	O	O	O
Power/adaptor	X	O	O	O	O	O
Packaging	O	O	O	O	O	O

This form was prepared in accordance with SJ/T 11364

\*: Circuit board components include a printed circuit board and its components, such as resistors, capacitors, integrated circuits, etc.;

O: It indicates that the contents of the hazardous substance in all homogeneous materials of the part are below the limit requirement specified in GB/T 26572;

X: It indicates that the contents of the hazardous substance in at least one of the homogeneous materials of the part exceed the limit requirement specified in GB/T26572;

\* FCC

This device complies with Part 15 of the FCC Rules.

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.

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

NOTE: This equipment 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. 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:

- Reorient 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.