SAILSKY

Datasheet

BL series

BL70DG-AP

File version: V1.0

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Security statement

Please read the safety and compatibility information of the product before powering it up.
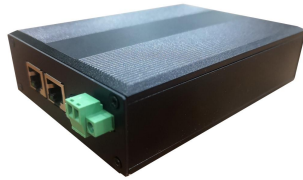
Environmental statement

The product conforms to the design requirements of environmental protection. The storage, use and disposal of the product shall comply with the requirements of relevant national laws and regulations.

Revision record

The revision record accumulates the notes for each manual update, and the latest version of the manual contains all previous manual updates.

BL70DG-AP

Outdoor Access Point
2.4GHz 300Mbps

Product introduction:

BL70 is a new generation of high-performance, cost-effective and intrinsically safe wireless product that works in the 2.4G frequency band and supports 802.11b/g MIMO technology. It adopts Qualcomm QCA9531 solution, 16M flash memory/128M memory, 100M network interface, 2.4G 802.11n MIMO technology wireless processing speed up to 300Mbps, which can meet the needs of 64 people for wireless high-speed Internet access at the same time. The hardware design meets intrinsic safety requirements, and the highly reliable multi-level power supply protection and port protection design ensure that the BL70 wireless product can work in harsh industrial control environments for a long time.

Ultra-miniature design concept, terminal interface, stable and shock-resistant, can be built into robots, cameras, handheld remote controls, explosion-proof boxes, AGV and other equipment.

It can be widely used in industrial applications, mining intrinsic safety, mobile robot inspection, high-bandwidth communications and other industry applications.

Easily adapt to extreme outdoor environments of high temperature and cold. It can be equipped with an external directional antenna, supports pole/wall-mounted installation, and supports terminal power supply. It is flexible and plug-and-play. It has the characteristics of high gain, high receiving sensitivity, high bandwidth, high number of accesses, etc., and has a wide range of wireless coverage. , stable performance, suitable for wireless transmission scenarios such as mines, pipe corridors, etc.

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Hardware

Model	BL70DG-AP
Chipset	Qualcomm QCA9531 300Mbps
CPU Clock Speed	550MHz
Standards	2.4G:300M 802.11b/g/n MIMO Technology
Memory	128MB DDR2 RAM
Flash	16MB
Interface	LAN1/PoE+WAN1 10/100Mbps RJ45
Button	1*Reset Button，Long press to reset, short press to adjust digital display number
Power Consumption	<9W
Power Supply	Phoenix terminal 9v-24V
Weight	0.7KG
Toggle switch	Define product AP Mode and Repeater Mode
Antenna	2*SMA antenna interfaces

Environment Temperature

Operating temperature	Temperature: -40℃～+55℃ (working), -40℃～+70℃ (storage) Humidity (non-condensing): 5% ~ 90% (working), 5% ~ 95% (storage)

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Radio frequency Feature

Frequency Range	ISM band: 2.400 ~ 2.4835 GHz
Channel	2G:1、2、3、4、5、6、7、8、9、10、11、12、13
Modulation method	OFDM = BPSK, QPSK,16-QAM,64-QAM; DSSS = DBPSK, DQPSK, CCK
Output power	2.4G: 11n @MCS0~2/MCS8~10:27±1dBm @MCS7/MCS15:23±1dBm 11g @6~24M:27±1dBm @54M:23±1dBm 11b @1~11M:27±1dBm
Receiving sensitivity	2.4G: 11n: -86dbm@MCS0 -68dbm@MCS7 -86dbm@MCS8 -64dbm@MCS15 11g: -90dbm@6Mbps -68dbm@54Mbps 11b: -90dbm@1Mbps -85dBm@11Mbps
EVM	802.11n: ≤-29 dB 802.11g: ≤-26 dB802.11b:
Frequency offset	±20ppm

Software Feature

Working Mode	Router,AP and Repeater
Seamless roaming	Support KVR fast switching without perception
VLAN	Support VLAN classification based on access SSID
AC Management	Support AC cross-layer three switch management
Users	64
System	Restore factory/system restart

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