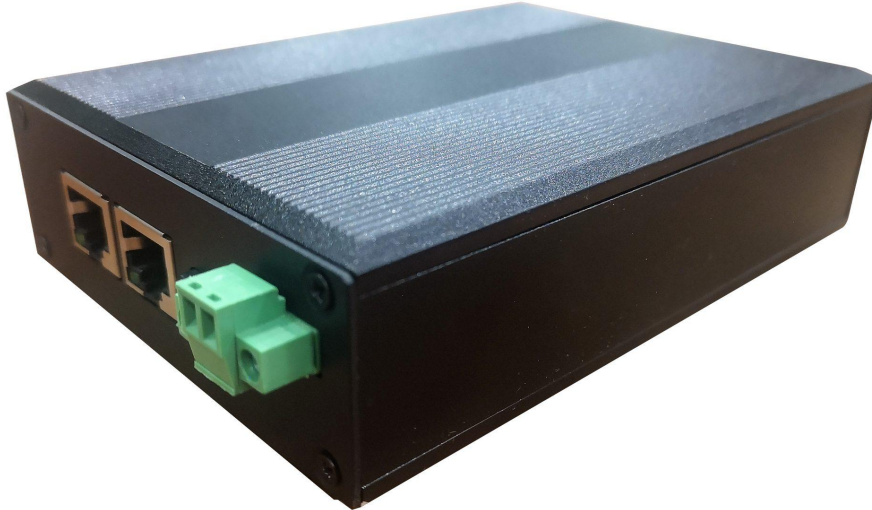


2.4 GHz 300 Mbps DIN-Rail Access Point BL70DG



Features and Advantages

- Qualcomm QCA9531 platform with 2.4 GHz 802.11b/g/n MIMO throughput up to 300 Mbps
- Router, access point and repeater modes with K/V/R fast roaming support
- Wide 9-24 V DC Phoenix-terminal power input for industrial integration
- Operating temperature from -40°C to +55°C for harsh industrial environments
- Compact, shock-resistant DIN-rail enclosure for industrial equipment integration

Introduction

The BL70DG is a compact, high-performance wireless product for the 2.4 GHz band. It supports IEEE 802.11b/g/n MIMO and uses the Qualcomm QCA9531 platform with 16 MB flash memory and 128 MB RAM. Wireless throughput reaches up to 300 Mbps, and the source specifies simultaneous access for up to 64 users.

The hardware is designed to meet intrinsic-safety requirements. Multi-level power-supply and port protection support reliable operation in harsh industrial-control environments. Its compact, shock-resistant DIN-rail enclosure can be integrated into industrial cabinets, robots, cameras, handheld remote controls, explosion-proof enclosures, AGVs and similar equipment.

The product is intended for industrial, mining, mobile-robot inspection and high-bandwidth communication applications. Its DIN-rail enclosure supports installation inside industrial equipment cabinets and control systems, while the terminal power input and external antenna interfaces simplify system integration. High gain, receive sensitivity and access capacity provide wireless coverage for mines, utility corridors and other industrial transmission scenarios.

Hardware Specifications

Item	Specification
Model	BL70DG
Chipset	Qualcomm QCA9531, 300 Mbps
CPU clock speed	550 MHz

Item	Specification
Wireless standards	2.4 GHz, 300 Mbps, IEEE 802.11b/g/n MIMO
Memory	128 MB DDR2 RAM
Flash	16 MB
Interfaces	1 x 10/100 Mbps WAN 1 x 10/100 Mbps LAN (PoE) 1 x reset button 1 x DC Phoenix terminal
Indicator lights	W/LAN, LAN, system and power-supply indicators
Button	1 x reset button Long press to reset; short press to adjust the digital-display number
Power consumption	<9 W
Power supply	9-24 V DC Phoenix terminal
Weight	0.7 kg
Toggle switch	Defines AP mode and repeater mode
Antenna interfaces	2 x SMA antenna interfaces

Environmental Specifications

Item	Specification
Operating temperature	-40°C to +55°C
Storage temperature	-40°C to +70°C
Operating humidity	5% to 90% RH, non-condensing
Storage humidity	5% to 95% RH, non-condensing

Radio Frequency Specifications

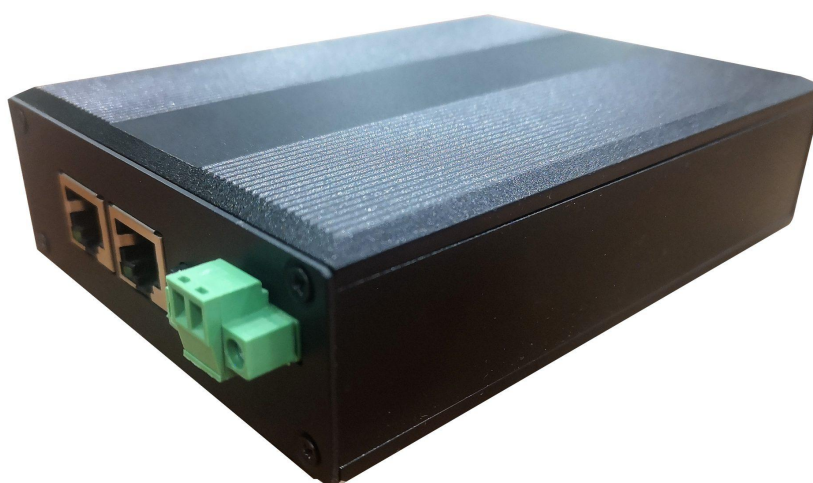
Item	Specification
Frequency range	ISM band: 2.400 to 2.4835 GHz
Channels	2.4 GHz: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DSSS: DBPSK, DQPSK, CCK
Output power	2.4 GHz: 802.11n MCS0-MCS2 / MCS8-MCS10: 27 ±1 dBm 802.11n MCS7 / MCS15: 23 ±1 dBm 802.11g 6-24 Mbps: 27 ±1 dBm 802.11g 54 Mbps: 23 ±1 dBm 802.11b 1-11 Mbps: 27 ±1 dBm

Item	Specification
Receive sensitivity	2.4 GHz: 802.11n: -86 dBm at MCS0; -68 dBm at MCS7; -86 dBm at MCS8; -64 dBm at MCS15 802.11g: -90 dBm at 6 Mbps; -68 dBm at 54 Mbps 802.11b: -90 dBm at 1 Mbps; -85 dBm at 11 Mbps
EVM	802.11n: ≤ -29 dB 802.11g: ≤ -26 dB 802.11b:
Frequency offset	± 20 ppm

Software Features

Item	Specification
Working modes	Router, AP and repeater
Seamless roaming	Supports K/V/R fast switching without perceptible interruption
VLAN	Supports VLAN classification based on the access SSID
AC management	Supports AC management across Layer 3 switches
Users	64
System	Factory reset and system restart

Product Appearance



Company Information

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