

# **DG-420 Datasheet**

Nanjing Woxu Communication Technology Co., Ltd.

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## 1 Product introduction

DG-420 is an outdoor gateway designed by Nanjing Woxu Communication Technology Co., Ltd. It supports Sub-G and 2.4G technologies. It is mainly used in power plants (thermal and hydropower/nuclear power), chemical plants, electricity/cement plants, etc.

DG-420 is powered through the network port and supports DC 12V power supply.

The equipment supports a temperature range of  $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ , and the IP rate is IP65.

## 2 Main feature

- Sub-G data transmission: 400 meters @40kbps unobstructed
- 2.4G data transmission: 100 meters @1Mbps unobstructed
- 10/100M Ethernet
- Explosion-proof grade Exib IIB T6 Gb



### 3 Product specification

Item	Description
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#### Overview

Model	DG-420	
Interface	RJ45 10/100Mbps	
	N type (right) × 1(Sub-G)	
	N type (left) × 1 (2.4G)	
Input voltage	Intrinsically safe 12V DC	
Average power consumption	< 2W	
Installation method	Wall hanging	
LED	PWR	Green, long on after power supply
	Status	Red, abnormal
	433	Green, blinking at work
	2.4G	Green, blinking during data transmission

#### RF Spec. (Sub-G)

Work frequency	433MHz
Transmission power (single channel 25°C)	17dBm
Receiving sensitivity	-107dBm
Transmission rate	40kbps

#### RF Spec. (2.4G)

Work frequency	2400-2483.5MHz
Transmission power (single channel 25°C)	20dBm
Receiving sensitivity	-95dBm
Channel bandwidth	1MHz

**Software Spec.**

Network protocol	DHCP client
Configuration management	Web-based user management interface (remote management/local management) TFTP/HTTP software upgrade
Connected to the calculation engine	WAN IP or domain name auto-discovery
Uplink interface	Interface B

**Physical specifications**

Size (mm)	240*185*80
Weight (gram)	1640

**Environment Spec.**

Temperature	Work temperature -20°C~60°C
	Storage temperature -40°C - 85°C
Humidity	Working humidity: 0% ~ 90% non-condensing
IP rate	IP65
RoHs	Compatible