

# WiFio-501

## 16-Channel Digital Input/16-Channel Digital Output Module



### Main Features

**PRELIMINARY**

- ③ 16 Channel Digital Input/16-Channel Digital Output Module
- ③ Dry / Wet Contact
- ③ Startup/Communication Safety Value Setting
- ③ Isolation voltage 2500VDC
- ③ Latch Value Read



## Introduction

The Wifio Series is an Ethernet-based wireless IIoT device, which has integrated the IoT data acquisition, processing, and publishing functions all together. The WiFio Series also provide WiFi and LAN connection for users when establishing networks.

## Specifications

Model Name	WiFio-501
<b>General</b>	
Power Input	10~60VDC
Power Consumption	200mA@24V
Temperature-Operating	-25 ~ 70 °C
Temperature-Storage	-30 ~ 75 °C
Humidity	5 ~ 95 %
Dimensions	120.1 mm*94.4 mm*121.1mm
Weight	360g (Average)
LED Indicators	System,Config,WLAN
<b>WiFio-Master</b>	
LAN Connection Transmission Speed	1 x RJ45 10/100 Base-TX Ethernet
WiFi Connection	IEEE 802.11/b/g/n Internal built-in ceramic

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		antenna and optional external antenna via I-PEX connector
<b>WiFi Mode</b>		STAP/AP Configurable TX Power Support External Antenna
<b>Modbus Connector</b>		2 serial port both support baud rate up to 115200bps, 1 DIN-rail port to connect Wolf Series seamlessly
<b>Modbus Interface</b>		1 isolated DB9 type port to support RS232/422/485 by user configurable.
<b>Modbus RTU Modes</b>		Master/Slave Mode manage up to 8 devices
<b>Modbus TCP Modes</b>		Master/Slave Mode
<b>Modbus Function Codes</b>		Full support Modbus/TCP/RTU protocol and depends on equipped devices
<b>Modbus Baud Rate</b>		1.2K~115.2K Baud Rate
<b>http Server</b>		Support http and https
<b>SSH</b>		Secure Session
<b>DHCP</b>		DHCP Client to Obtain IP Address
<b>Supported Browsers</b>		Internet Explorer 8/9/10 and, Mozilla Firefox 24, Safari 5.1.7, Chrome 31, Oper 16.0, with at least 3 simultaneous connections.
<b>Mounting</b>		DIN EN 60715
<b>Safety</b>		FCC/CE/RoHS
<b>WiFi-Slave</b>		
<b>Watchdog Timer</b>		System (1.6 second Fixed) Communication (Programmable)
<b>Interface</b>		RS-485
<b>Communication Protocol</b>		Modbus/RTU
<b>Communication Speed</b>		Serial: From 1200 to 115.2k bps
<b>Communication Distance</b>		Serial: 1.2km
<b>Isolation Protection</b>		2500 or 3000 VDC
<b>IO Specifications</b>		
<b>Digital Input</b>		
<b>Digital Input Channels</b>		16
<b>Power Consumption</b>		4.8W @ 24V
<b>Dry Contact</b>	Logic Level 0	Open
	Logic Level 1	Close to GND

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<b>Wet Contact</b>	Logic Level 0	+3V maximum
	Logic Level 1	+10 to 50V
<b>Input resistance</b>		10k $\Omega$
<b>Isolation voltage</b>		2500VDC
<b>Over-voltage Protection</b>		70 VDC
<b>Counter Input Range</b>		Max.100Hz (16 - bit)
<b>Latch Value Read</b>		Yes
<b>Digital Output</b>		
<b>Digital Output Channels</b>		16
<b>Power Consumption</b>		4.8W @ 24V
<b>Output Type</b>		NPN
<b>Output Voltage Range</b>		3.5~30V
<b>Normal Output Current</b>		500mA
<b>Startup Value Setting</b>		Yes
<b>Communication Safety Value Setting</b>		Yes

## Terminal Assignment-WiFio-501

