# gLink200 Series IO Module

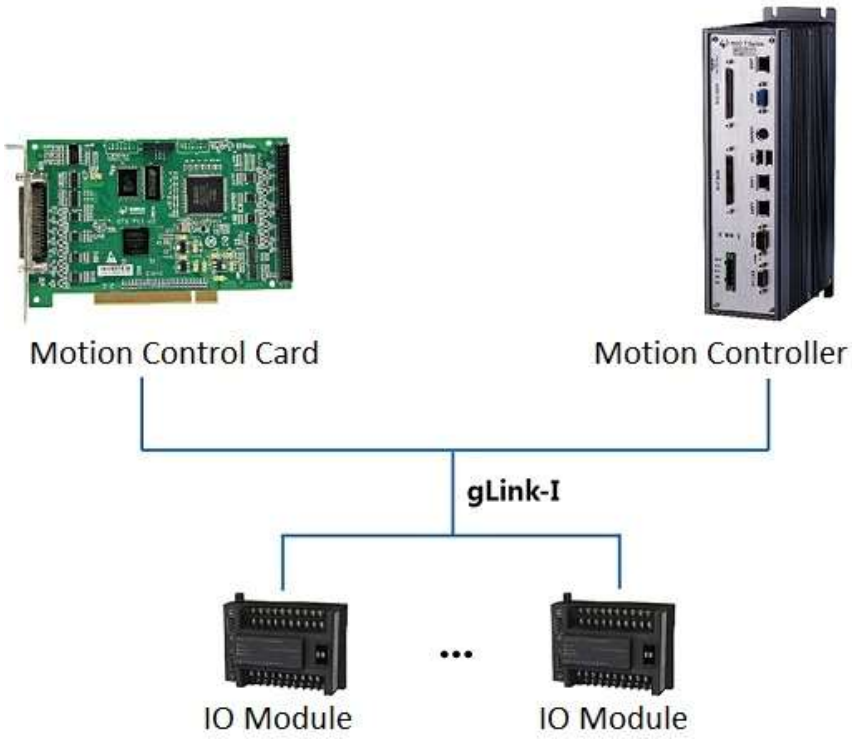
## Overview

Googoltech's gLink200 series IO modules can meet the logic control and input and output function requirements of various signal in various application industries. It supports 200 protocols, 300 protocols, 400 protocols and 500 protocols, which can be directly connected with controllers.

## Main Features

- Support multiple input and output channel selectable
- Support a wide range of ranges.
- Direct connection controller use

## System Structure

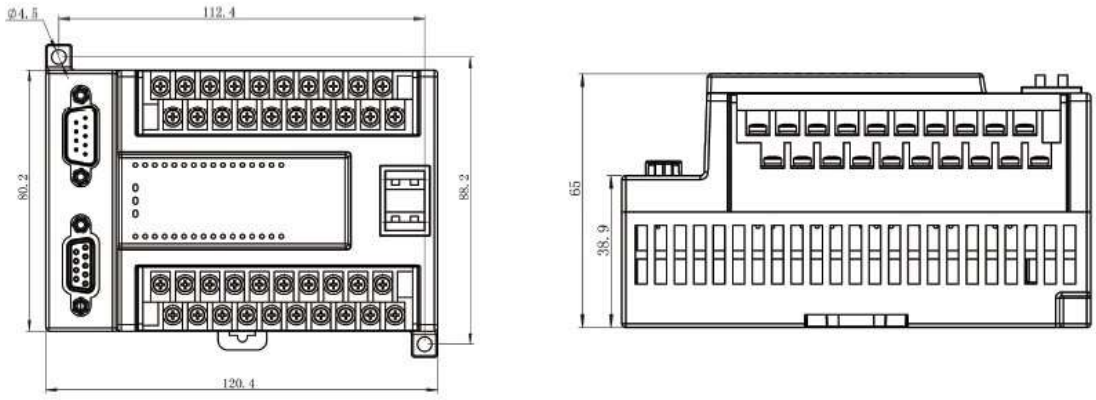


# Specifications

| Function | Item | Description |
|---|---|---|
| Power | 21~28V DC, 300mA | |
| Digital Input | I/O terminal block | Detachable |
| | Number of input channels | Depending on the specifications of different models |
| | Indicator light | 1pcs green LED/ channel |
| | Input type | Sink/Source (Selected by COM, default source type input) |
| | Input voltage | 21~28V DC |
| | Maximum continuous voltage | 30V DC |
| | Surge | 35V DC, 0.5 minute |
| | Rating | 24V DC |
| | Logic 1 signal (minimum) | >15V DC (Voltage difference between input and COM) |
| | Logic 0 signal (maximum) | <5V DC (Voltage difference between input and COM) |
| | Optical isolation | 500V AC, 1 min |
| | Number of isolation channels | 8 Channels |
| | Input delay time | 4.5ms (maximum) |
| Digital Output | I/O terminal block | Detachable |
| | Number of output channels | Depending on the specifications of different models |
| | Indicator light | 1pcs green LED/ channel |
| | Output type | Solid state - MOSFET (Sink output) |
| | Load voltage | 21~28V DC |
| | Output current | 0.75A (Maximum current per channel) |
| | On-state impedance (Contact impedance) | 0.3Ω |
| | Leakage current | 10 μA, maximum per channel |
| | Surge current | 8A, 100ms, maximum |
| | Protection | Short circuit protection, over temperature protection, overcurrent protection, over voltage protection |
| | Optical isolation | 500V AC, 1 min |
| | Number of isolation channels | 8 Channels |
| | output delay time | 5ms (maximum) |
| Analog Input | Number of input channels | Depending on the specifications of different models |
| | Resolution | 12bit |
| | Sampling | Successive approximation register (SAR) |

| Function | Item | Description |
|---|---|---|
| Analog Input | Conversion rate | 1MSPS (8Ch) |
| | Absolute error | <+/-0.8% |
| | Input voltage range | Depending on the specifications of different models |
| | Input type | Voltage: compatible with single-ended inputs and differential input; Current: unidirectional or bidirectional current |
| | Input resistance | Voltage type: ≥1MΩ, (IEC61131-2); Current type: 249Ω |
| | Input limit (Destruction value) | Voltage: +/-15V; Current: +/-60mA |
| Analog Output | Number of output channels | Depending on the specifications of different models |
| | Resolution | 12bit |
| | Output setup time | Voltage: <50uS (+10V step to -10V); Current: <1.5mS (1kΩ load, 0mA step to 20mA) |
| | Absolute error | <+/-0.1% |
| | Output voltage range | Depending on the specifications of different models |
| | Output type | Single-ended voltage output |
| | Drive capability | Voltage: Resistive load is 1kΩ minimum; Capacitive load can drive up to 1uF (limit value, 30% margin is recommended for application)<br>Current: Resistive load maximum 500Ω; Inductive load maximum 50mH (0.01uF compensation capacitor must be connected in parallel); Capacitive load is unlimited |
| | Output protection | Current: Short circuit current limit value maximum 16mA;<br>Voltage: No load voltage maximum 22V |
| | Rated supply voltage | 24V DC (-15 %/+20 %), (IEC 61131-2, type 1) |
| | Power consumption (full load output) | All voltage output: Max0.5W; all current output: Max3.5W |

## Dimension

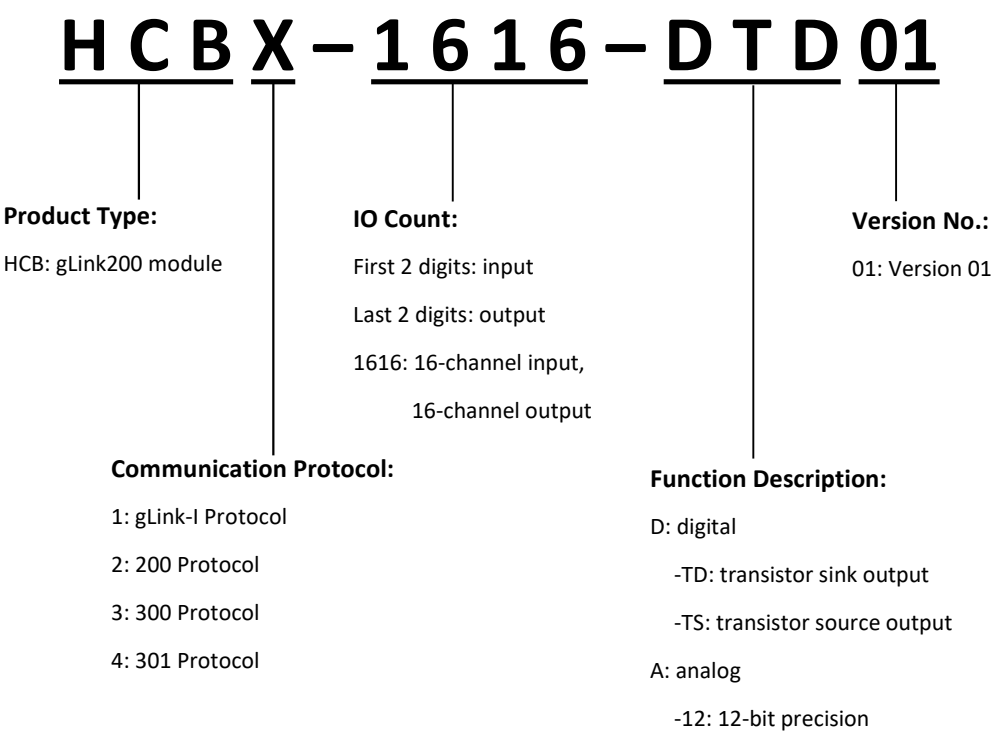



**gLink200 Series IO Module**

The IO module installation size of each model is the same.

**Unit: mm**

## Selection Guide




Remark: Use 0 to represent that specific position is a default one

## Ordering Guide

| Ordering Number | Description |
|---|---|
| HCB2-1616-DTD01 | 200 Protocol, 16DI/16DO, input active low, transistor sink output 0.5A, sink output (low side output) |
| HCB3-1616-DTD01 | 300 Protocol, 16DI/16DO, input active low, transistor sink output 0.5A, sink output (low side output) |
| HCB2-1616-DTS01 | 200 Protocol, 16DI/16DO, input high and low active selection, transistor source output 0.5A, source output (high side output) |
| HCB3-1616-DTS01 | 300 Protocol, 16DI/16DO, input high and low active selection, transistor source output 0.5A, source output (high side output) |
| HCB3-0604-A12WL | 300 Protocol, 6AI/4AO, 12-bit precision; Compatible with analog module "CPAC-300-ACC-S0408A"<br>Input multi-range range (0-5V, 0-10V, +-5V, +-10V, 0-20mA, 4-20mA)<br>Output (+-10V) |
| HCB3-0606-A1201 | 300 Protocol, 6AI/6AO, 12-bit precision; Input multi-range range (0-5V, 0-10V, +-5V, +-10V, 0-20mA, 4-20mA), output (+-10V) |

| Ordering Number | Description |
|---|---|
| HCB3-0604-A1202 | 300 Protocol, 6AI/4AO, 12-bit precision; Input and output support multi-range range (0-5V, 0-10V, +-5V, +-10V, 0-20mA, 4-20mA ) |
| HCB3-0606-A1202 | 300 Protocol, 6AI/6AO, 12-bit precision; Input and output support multi-range range (0-5V, 0-10V, +-5V, +-10V, 0-20mA, 4-20mA) |
| HCB2-0604-A1201 | 200 Protocol, 6AI/4AO, 12-bit precision; Compatible with analog module "ACC-S0408A"<br>Input multi-range range (0-5V, 0-10V, +-5V, +-10V, 0-20mA, 4-20mA)<br>Output (+-10V) |
| HCB2-3200-DXX01 | 200 Protocol, 32DI, input high and low active selection, no output |
| HCB3-3200-DXX01 | 300 Protocol, 32DI, input high and low active selection, no output |
| HCB4-1616-DTD01 | 301 Protocol, 16DI/16DO, input active low, sink output |
| HCB4-1616-DTS01 | 301 Protocol, 16DI/16DO, input high and low active selection, source output |
| HCB4-3200-DTD01 | 301 Protocol, 32DI, input active low, sink output |
| HCB4-0606-A1201 | 301 Protocol, 6AI/6AO, 12-bit precision |

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