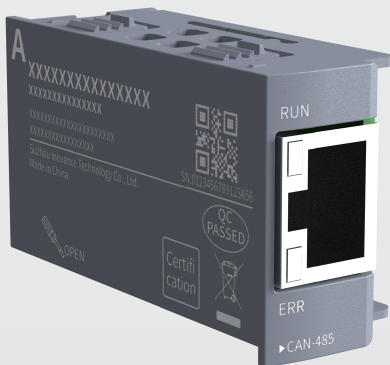




PS00006436A08

GE20-CAN-485 Communication Expansion Card User Guide

Suzhou Inovance Technology Co., Ltd.

Add.: No. 52, Tian E Dang Road, Wuzhong District, 215104,

Suzhou City, Jiangsu Province, P.R. China

Tel: (0512) 6637 6666 Fax: (0512) 6285 6720

www.inovance.com



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■ Disclaimer of Liability

Due to continuous updates and improvements of products and technologies, the content of this documentation may not fully match the actual products. In the event of any discrepancies, the actual products shall prevail.

The contents are subject to change without notice due to product upgrade.

■ Waste Disposal

The storage, use, and disposal of this product (including optional accessories) must comply with local laws and regulations.

■ Qualified Personnel

The product/system described in this documentation may be operated only by personnel qualified for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel can identify the risks of the product/system and prevent possible dangers.

■ Proper Use of the Product

Proper transportation, storage, assembly, installation, commissioning, operation, and maintenance are required to ensure the safe operation of the product without any problems. The required ambient conditions must be met. All operations must follow the guidelines provided in this documentation.

Preface

■ Introduction

Thank you for purchasing the GE20-CAN-485 communication extension expansion card independently developed and produced by Inovance Technology. The GE20-CAN-485 can be used with Easy300/Easy500/AM300/AM500/EVO500 series PLCs and supports one channel of CAN communication and one channel of RS485 communication.

This guide describes the product information, mechanical installation, electrical installation, and programming examples of the product. Before use, please read this guide thoroughly.

■ Standards Compliance

The table below lists the certifications, directives, and standards that the product may comply with. For details about the acquired certificates, see the certification marks on the product nameplate.

Certification	Directive		Standard
CE certification	EMC directive	2014/30/EU	24 VDC products: EN 61131-2 220 VAC products: EN 61131-2 EN 61000-3-2 EN 61000-3-3
	LVD directive	2014/35/EU	EN 61010-1 EN 61010-2-201
	RoHS directive	2011/65/EU amended by (EU) 2015/863	EN IEC 63000
UL/cUL certification	-		UL 61010-1 UL 61010-2-201 CAN/CSA-C22.2 No. 61010-1 CSA C22.2 No. 61010-2-201

Certification	Directive		Standard
KCC certification	-		-
EAC certification	-		-
UKCA certification	Safety regulations	Electrical Equipment (Safety) Regulations 2016	EN 61010-1 EN 61010-2-201
	EMC regulations	Electromagnetic Compatibility Regulations 2016	24 VDC products: EN 61131-2 220 VAC products: EN 61131-2 EN 61000-3-2 EN 61000-3-3
	RoHS regulations	Directive (RoHS) Regulations 2012	EN IEC 63000

■ More Documents

Name	Data code	Description
Easy Series Programmable Logic Controller User Guide	PS00006444	Introduces the product information, installation and wiring, operation and maintenance of the Easy series products.
AM300 Series Programmable Logic Controller User Guide	PS00008836	This guide describes installation and wiring of the AM300 series PLC, including product information, mechanical installation, and electrical installation.
AM500 Series Programmable Logic Controller User Guide	PS00008837	This guide describes installation and wiring of the AM500 series PLC, including product information, mechanical installation, and electrical installation.

Name	Data code	Description
EVO500 Series Programmable Logic Controller User Guide	PS00016754	This guide describes installation and wiring of the EVO500 series PLC, including product information, mechanical installation, and electrical installation.
H5U and Easy Series Programmable Logic Controller Programming and Application Guide	19012249	Describes the basic knowledge of PLC programming, quick start guidance, communication, motion control, and the use of high-speed counters.
H5U & Easy Series Programmable Logic Controller Instructions Guide	19012250	Introduces the basic and complex instructions, as well as examples of instructions used in product programming and application.
GE20-CAN-485 Communication Expansion Card User Guide (this guide)	PS00006436	Introduces the product information, mechanical installation, electrical installation, and programming examples of the product.

■ Revision History

Date	Version	Description of change(s)
January 2026	A08	Updated effect diagrams and product codes.
January 2025	A07	Minor corrections.
January 2024	A06	Minor corrections.
October 2023	A05	Minor corrections.
September 2023	A04	Updated the programming examples, and added "6.2 InoProShop Programming Examples (When used with AM522)" on page 31.
August 2023	A03	Minor corrections.
May 2023	A02	Corrected some minor errors.

Date	Version	Description of change(s)
March 2023	A01	Updated nameplate description and added some product specification data.
July 2024	A00	First release.

■ Access to the Guide

The guide is not delivered with the product. Download the PDF file in the following ways:

- Visit <https://www.inovance.com/global>, choose Service&Support > Support > Documentation Download.
- Scan the **QR code** on the product with your smart phone.
- Scan the QR code below to install the **My Inovance app**, where you can search for and download user guides.



■ Warranty

Inovance provides warranty service within the warranty period (as specified in your order) for any fault or damage that is caused by proper operation of the user. Maintenance will be charged after the warranty expires.

Within the warranty period, maintenance fee will be charged for the following damage:

- Damage caused by operations not following the instructions in the guide
- Damage caused by fire, flood, and unusual voltage
- Damage caused by using the product for unintended functions
- Damage caused by using the product outside the specified scope
- Secondary damage caused by force majeure (natural disasters, earthquakes and lightning strikes)

When applicable, relevant maintenance fee will be charged according to the latest Price List of Inovance. If otherwise agreed upon, the agreed terms and conditions shall prevail.

For details, see the Warranty Card.

1 Fundamental Safety Instructions

1.1 Fundamental Safety Instructions

■ Safety Disclaimer

1. Read through the safety instructions before installing, operating, and servicing the equipment, and comply with these instructions.
2. To ensure personal and equipment safety, observe the notes indicated on the product labels and all the safety instructions in the user guide.
3. "CAUTION", "WARNING", and "DANGER" in this guide only indicate some of the precautions that need to be followed; they just supplement the safety precautions.
4. Use this product in environments meeting the design and specification requirements; otherwise, a fault may occur. Noncompliance-caused malfunction or damage to parts are not covered in product quality warranty.
5. Inovance shall take no responsibility for any personal injury or property damage caused by improper use.

■ Safety Levels and Definitions



"DANGER" indicates that failure to comply with the notice will result in death or severe personal injuries.



"WARNING" indicates that failure to comply with the notice may result in death or severe personal injuries.



"CAUTION" indicates that failure to comply with the notice may result in minor or moderate personal injury or equipment damage. Keep this user guide properly for future use and deliver it to the end user.

Control System Design



DANGER

- Provide a safety circuit outside the PLC so that the control system can still work safely once external power failure or controller fault occurs.
- Add a fuse or circuit breaker because the module may smoke or catch fire due to long-time overcurrent caused by operation above rated current or load short-circuit.



WARNING

- An emergency stop circuit, a protection circuit, a forward/reverse operation interlocked circuit, and an upper position limit and lower position limit interlocked circuit must be set in the external circuits of PLC to prevent damage to the machine.
- To ensure safe operation, for the output signals that may cause critical accidents, use external protection circuits and safety mechanism.
- Once PLC CPU detects abnormality in the system, all outputs may be closed; however, when a fault occurs in the controller circuit, the output may not be under control. Therefore, it is necessary to design an appropriate external control circuit to ensure normal operation.
- If the PLC output units such as relays or transistors are damaged, the output may fail to switch between ON and OFF states according to the commands.
- The PLC is designed to be used in an indoor electrical environment (overvoltage category II). The power supply must have a system-level surge protector, assuring that overvoltage due to lightning shock can't be applied to the PLC's power supply input terminals, signal input terminals and output terminals, to prevent damage to the equipment.

Installation



- Installation must be carried out by skilled personnel who have undergone specialized electrical training and possess comprehensive electrical expertise.
- Disconnect all external power supplies of the system before removing/installing the module. Failure to do so may result in electric shock, module fault or malfunction.
- Do not use the PLC in environments with dust, greasy smoke, conductive dust, corrosive or combustible gases, exposed to high temperature, condensation, wind & rain, or subject to vibration and shock. Electric shock, fire and malfunction may also result in damage or deterioration to the product.
- The PLC is open-type equipment that must be installed in a control cabinet with lock (cabinet housing protection > IP20). Only the skilled personnel who have undergone specialized electrical training and possess comprehensive electrical expertise can open the cabinet.



- Prevent metal filings and wire ends from dropping into ventilation holes of the PLC during installation. Failure to comply may result in fire, fault and malfunction.
- Ensure there are no foreign matters on ventilation surface. Failure to comply may result in poor ventilation, which may cause fire, fault and malfunction.
- Ensure the module is connected to the respective connector securely and hook the module firmly. Improper installation may result in malfunction, fault or fall-off.

Wiring



- Wiring must be carried out by skilled personnel who have undergone specialized electrical training and possess comprehensive electrical expertise.
- Disconnect all external power supplies of the system before wiring. Failure to comply may result in electric shock, module fault or malfunction.
- Install the terminal cover attached to the product before power-on or operation after wiring is done. Failure to comply may result in electric shock.
- Insulate the cable terminals properly to ensure the insulation distance between cables will not be shortened after cables are connected to the terminal block. Failure to comply may result in electric shock or damage to the equipment.

Wiring



CAUTION

- To avoid electric shock, cut off the power supply before connecting the product to the power supply.
- The input power supply of this product must be 24 VDC. Power supplies outside $\pm 20\%$ of 24 VDC can cause severe damage to the product. Therefore, check whether the DC power supply provided by the switching-mode power supply is stable at a regular interval.

Operation and Maintenance



CAUTION

- Operation and maintenance must be carried out by skilled personnel who have undergone specialized electrical training and possess comprehensive electrical expertise.
- Do not touch the terminals while the power is on. Failure to comply may result in electric shock or malfunction.
- Disconnect all external power supplies of the system before cleaning the module or re-tightening screws on the terminal block or screws of the connector. Failure to comply may result in electric shock.
- Disconnect all external power supplies of the system before assembling/disassembling the module or connecting/removing the communication cables. Failure to comply may result in electric shock or malfunction.

Safety Recommendations

- In the position where the operator directly touches the machinery part, for example, where a machinery tool is loaded/unloaded, or where a machine runs automatically, the on-site manual operating devices and any other alternative means must be carefully arranged and designed so that they are independent of the programmable controller and can start or terminate the automatic running of the system.
- If modification on the program is needed during system operation, use the lock function or other protective measures. Ensure that only authorized personnel can make the necessary modifications.

Disposal



- Treat the scrapped product as industrial waste. Dispose of the battery according to local laws and regulations.
- Recycle retired equipment by observing industry waste disposal standards to avoid environmental pollution.

1.2 Industrial Information Security

This product provides an interface to connect to the network and transmit data through the network interface. To protect factories, systems, machines, and networks from cyber attacks, appropriate industrial information security protection mechanisms need to be implemented to ensure the safe operation of factories, systems, machines, and networks.

The customer is responsible for providing and continuously ensuring a secure connection between the product and the customer's network or any other network, to prevent unauthorized access to their factory, systems, machines, and networks. The system or machine may only be connected to the corporate network or the Internet when a secure connection is established and proper security measures are in place (for example, using antivirus software and installing firewalls).

INOVANCE continuously develops and improves its products and solutions to enhance safety. It is strongly recommended that you update your products promptly and always use the latest product versions.



Caution

Malware (such as viruses, Trojans, and worms) can bring the device into an unsafe operating state, resulting in death, serious injury, and property damage. Observe the following precautions strictly:

- Always use the latest software version. If the product version is no longer supported or the latest program version is not applied, customers are at increased risk of cyberattacks.
 - Implement and maintain appropriate security measures (including but not limited to deploying anti-virus software, firewall, WAF, IPS/IDS, situational awareness system, ID verification, and data encryption) to prevent files in the removable storage device from being damaged by malware and to protect products, networks, systems, and interfaces from unauthorized access, disruption, intrusion, data leakage, or information theft.
 - Check all safety-related interfaces and settings after commissioning.
-

2 Product Information

2.1 Model and Nameplate

Model description

GE20 – CAN – 485

①

②

③

① Product series GE20 series general-purpose expansion card	③ Product Code RS485 communication card
② Product Code CAN communication card	-

Nameplate

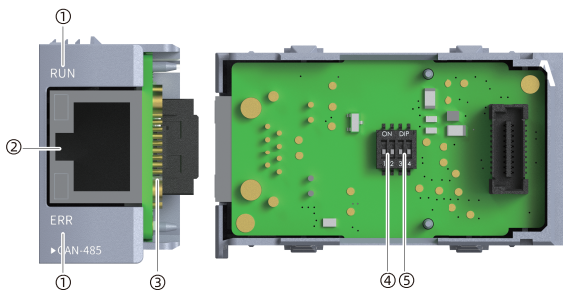


Note

The letter "A" on the nameplate indicates that only the card slot A of the PLC is supported.

Model	Description	Code
GE20-CAN-485-INT	GE20 Series CAN and RS485 Communication Card	01480114

2.2 Components



No.	Type	Terminal Identification	Assignment	Indicator Color	Description
①	Operation state indicator	RUN	Normal operation	Green	CANlink ON: Successful CANlink connection (node receives remote frame). Flashing ($\leq 3\text{Hz}$): During CANlink communication, one blink per frame of bus data sent or received. OFF: The CANlink bus is not connected or has disconnected. Flashing (5Hz): Flag monitor. CANopen Slow flashing (0.8-second cycle): CANopen node is in pre-operational state. ON: CANopen node is in operational state. Single flash (1.2-second cycle): CANopen node is in stopped state.

No.	Type	Terminal Identification	Assignment	Indicator Color	Description
①	Operation state indicator	ERR	Error state	Red	CANlink ON: Monitor (node) times out, or no node (monitor) exists. Flashing (0.5Hz): CANlink configuration error (for configurator only). Flashing (1Hz): CANlink node timeout, indicating a network node is lost or crashed (for monitor only) Flashing (5Hz): CANlink address conflict. Off: No fault. CANopen ON: CANopen bus is shut down. Single flash (1.2-second cycle): At least one error counter of the CANopen master has reached or exceeded the warning level (too many error frames). Double flash (1.6-second cycle): Error control event (node protection or heartbeat timeout). Off: No fault.
②	RJ45 interface	-	-	-	-
③	User terminals	-	-	-	See details in "5.1 S1/S2 State" on page 25.

No.	Type	Terminal Identification	Assignment	Indicator Color	Description
④	CAN DIP switch	1、 2	Used to control the termination resistor.	-	The CAN DIP switch is set to ON by default. To turn off the switch, toggle it to positions 1, 2 using tools such as forceps.
⑤	RS485 DIP switch	3、 4	Used to control the termination resistor.	-	The RS485 DIP switch is set to OFF by default, i.e. at positions 3 and 4. To turn on the switch, toggle it using tools such as forceps.

3 Product Specifications

3.1 General Specifications

Item	Specification
IP rating	IP20
Dimensions (W x H x D)	53.5 mm x 29.5 mm x 23 mm
Weight (g)	Approx. 16 g

3.2 Power Supply Specifications

Item	Specification
Rated input voltage	5 VDC (4.75 VDC to 5.25 VDC)
Rated input current	60 mA (typical@5 V)
Input short-circuit protection	Supported
Hot swap	Not supported

3.3 Communication Specifications

Item		Specification
RS485	Number of channels	1 channel
	Isolation mode	Non-isolation
	Termination resistor	With termination resistor, controllable via DIP switch, with the switch defaulted to OFF (termination resistor not connected).
	Number of slaves	Supports up to 31 slaves (each branch line distance must be <3 m)
	Communication baud rate	9.6 kbps, 19.2 kbps, 38.4 kbps, 57.6 kbps, 115.2 kbps
	Communication distance	• Transmission distance <100 m at a rate of 115.2 kbps • Transmission distance <1000 m at a rate of 19.2 kbps
CAN	Number of channels	Supports 1 master (firmware version 5.65.2.0 and later, software version AutoShop4.6.5.0 and later).
	Isolation mode	Non-isolation
	Termination resistor	With termination resistor, controllable via DIP switch, with the switch defaulted to ON (termination resistor connected).
	Number of slaves	• CANlink: Supports up to 62 slaves. • CANopen: Supports up to 30 slaves and 16 axes. Supports a maximum of 64 groups for both TPDO and RPDO data volumes.
	Communication distance	• <20 m at a baud rate of 1000 kbit/s • <80 m at a baud rate of 500 kbit/s • <150 m at a baud rate of 250 kbit/s • <300 m at a baud rate of 125 kbit/s • <500 m at a baud rate of 100 kbit/s • <1000 m at a baud rate of 50 kbit/s

3.4 Environmental Specifications

Item	Specification
Installation/Ambient environment	Free from conductive dust, conductive fibers, explosive dust, flammable gases, water mist/greasy dirt, corrosive dust/gases, strong vibration, and repetitive shock.
Altitude	≤ 2000 m
Pollution degree	Level 2
Immunity	2 kV on power supply line (compliant with IEC 61000-4-4)
Overvoltage category	I
EMC immunity level	Zone B, IEC61131-2
ESD protection level	Contact discharge +/-6 kV, air discharge +/-8 kV
Vibration resistance	• Application scenario: Tested according to IEC60068-2-6, 3.5 mm amplitude at 5 Hz to 8.4 Hz; 1 g gravitational acceleration at 8.4 Hz to 200 Hz; 10 cycles per axial direction • Transportation scenario: Tested according to IEC60068-2-64, 0.01 g²/Hz power spectral density at 5 Hz to 100 Hz; 0.001 g²/Hz power spectral density at 200 Hz; 1.14 g G rms
Shock resistance	Application/Transportation scenario: Tested according to IEC60068-2-27; 15 g peak acceleration, 11 ms pulse width, 18 cycles in total in X, Y and Z axial directions
Ambient temperature/humidity	• Temperature: -20°C to +55°C • Humidity: < 95% RH (30°C), without condensation

Storage temperature/humidity	• Temperature: -40°C to +70°C • Humidity: < 95% RH (30°C), without condensation
Transportation temperature/humidity	• Temperature: -40°C to +70°C • Humidity: < 95% RH (40°C), without condensation

4 Mechanical Installation

4.1 Environmental Specifications

Item	Specification
Ambient environment	Free from conductive dust, conductive fibers, explosive dust, flammable gases, water mist/greasy dirt, corrosive dust/gases, strong vibration, and repetitive shock
Altitude	≤ 2000 m
Pollution degree	Level 2
Immunity	2 kV on power supply line (compliant with IEC 61000-4-4)
Overvoltage category	I
EMC immunity level	Zone B, IEC61131-2
ESD protection level	Contact discharge +/-6 kV, air discharge +/-8 kV
Vibration resistance	• Application scenario: Tested according to IEC60068-2-6. 3.5 mm amplitude at 5 Hz to 8.4 Hz; 1 g acceleration at 8.4 Hz to 200 Hz; in ten cycles/axes • Transportation scenario: Tested according to IEC60068-2-64, 0.01 g²/Hz power spectral density at 5 Hz to 100 Hz; 0.001 g²/Hz power spectral density at 200 Hz; 1.14 g Grms
Shock resistance	Application/Transportation scenario: Tested according to IEC60068-2-27; 15 g peak gravitational acceleration, 11 ms pulse width, 18 times in X/Y/Z-axis directions
Storage temperature/humidity	• Temperature: -20 °C to +60 °C • Humidity: < 90% RH (30°C), without condensation

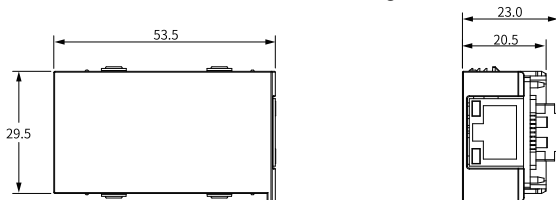
Item	Specification
Transportation temperature/humidity	- Temperature: -40 °C to +70 °C - Humidity: < 95% RH (30°C), without condensation
Operating temperature/humidity	- Temperature: -20 °C to +55 °C - Humidity: < 95% RH (40°C), without condensation

4.2 Installation Precautions

- Make sure the PLC is powered off before installing or removing the expansion card.
- Do not hot swap the expansion cards. Otherwise, the PLC may be subject to restart, user data loss or corruption.
- Do not drop or shock the housing or terminals of the expansion card to avoid damage.

4.3 Installation Dimensions

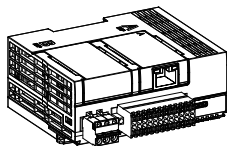
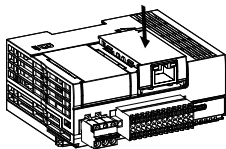
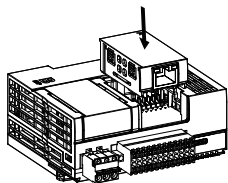
The installation dimensions (in mm) are shown in the figure below.



4.4 Installation Method

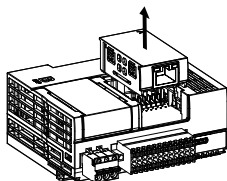
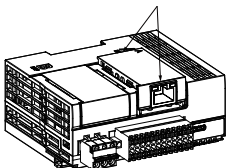
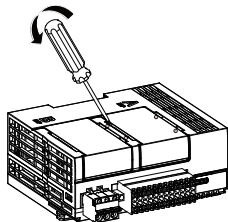
■ Installing the expansion card

The expansion card is snap-fitted with the PLC. Position the PLC horizontally, then align the expansion card with guide ribs and insert vertically into card slot A until fully seated, applying firm pressure to secure the connection. The expansion card is properly installed when an audible click is heard and both surfaces align flush, as shown in the following figure.



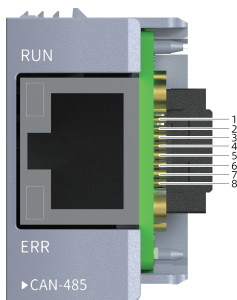
■ Removing the expansion card

Position the PLC horizontally, then insert the slotted screwdriver into the snap-fit joints in the order shown in the figure on the left, and pry the expansion card in the direction indicated by the arrow. The expansion card is initially disengaged from the PLC when an audible click is heard. Then you can hold the expansion card with two fingers at the positions indicated by the arrow as shown in the middle figure and take out the expansion card vertically.



5 Electrical Installation

5.1 S1/S2 State



RJ45 Pin	Description
1	CAN signal+
2	CAN signal-
3	Communication ground
4	RS485 communication signal+
5	RS485 communication signal-
6	-
7	-
8	Communication ground

5.2 RS485 communication

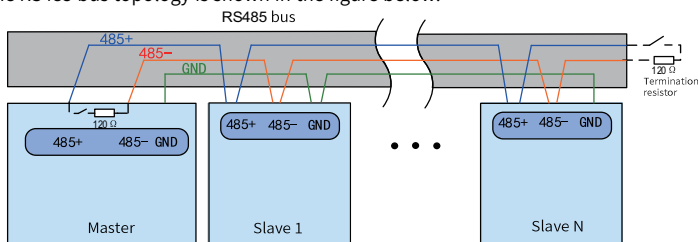


Caution

- Do not bundle the extension cable together with power cables (high voltage, large current) which produce strong interference signals. Separate it from other cables and avoid cabling in parallel.
- Select recommended cables and pinboards for connection. It is recommended that shielded cables be used as extension cables to enhance capacity of resisting interference.

It is recommended to use a shielded twisted pair cable for the RS485 bus. Connect a $120\ \Omega$ termination resistor to both ends of the bus to prevent signal reflection. Connect the signal reference grounds of all nodes together. Up to 31 nodes can be connected and the distance between branches must be less than 3 m.

The RS485 bus topology is shown in the figure below.

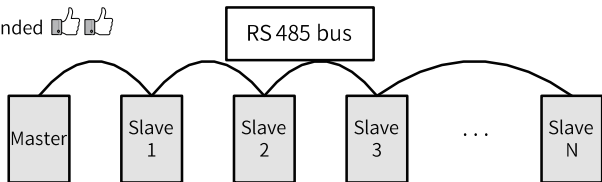


Multi-node connection

In case of a large number of nodes, connect the RS485 bus using the daisy chain mode. If branches need to be connected, keep the branch line as short as possible (less than 3 m). Star connections are prohibited. Common bus structures are shown in the following figures.

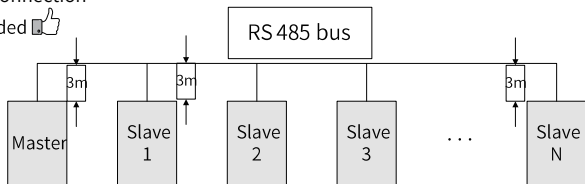
- Daisy chain connection

Recommended  



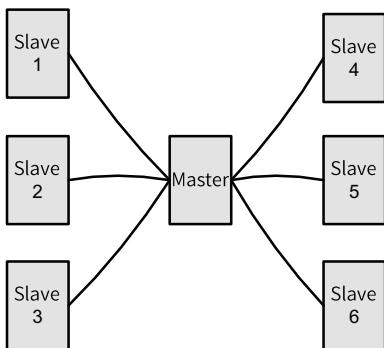
- Branch line connection

Recommended 



- Star connection (prohibited)

Prohibited

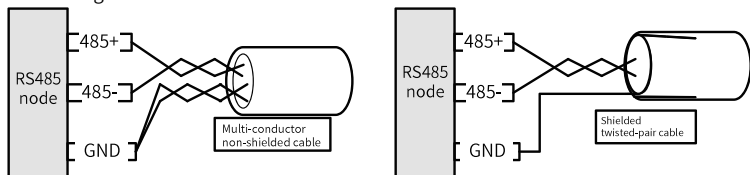


■ Terminal wiring

Ensure that the RS485 bus contains three cables, and the terminals are connected correctly. If you are using shielded cables, the shielding layer must be connected to

the GND terminal, rather than any other location (including housings and equipment ground terminals).

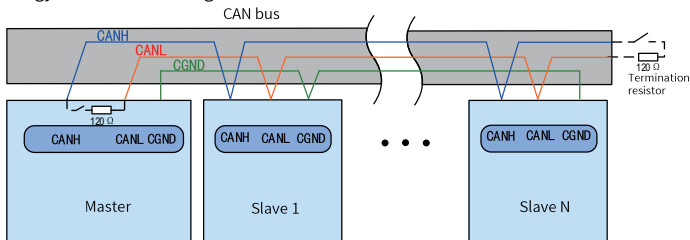
Given the effect of attenuation, it is recommended to use AWG26 or higher cables for connection longer than 3 m. Twisted pair cables are always recommended for connecting 485+ and 485-.



1. Recommended cable 1: Use multi-conductor twisted pair cables, with one twisted pair connected to 485+ and 485-, and others twisted together to connect GND.
2. Recommended cable 2: Use shielded twisted pair cables, with the twisted pair connected 485+ and 485-, and the shield connected to GND. In applications where shielded cables are used, the shield can be connected to GND only. Never connect the shield to the ground.

5.3 CAN Communication

In a CAN network, The three cables of each device must be interconnected. By default, 120Ω matching resistor has been added to the start of the CAN bus, and 120Ω matching resistor needs to be added to the end of the CAN bus. The CAN bus topology is shown in the figure below.



5.4 Cable Connection

Connecting: Hold the RJ45 connector of the cable and insert it into the RJ45 port until you hear a "click" sound.

Removing: press down the clip of the RJ45 connector, and then pull it out along the direction parallel with the module.



Caution

It is recommended to use network cables for RS485 communication and CAN communication. It is not recommended to strip the wires for separate connection. If you do need to strip the wires for separate connection, see ["5.1 S1/S2 State" on page 25](#) for the definition of RJ45 pins, and also see ["5.2 RS485 communication" on page 26](#) and ["5.3 CAN Communication" on page 28](#).

6 Programming Examples

6.1 Autoshop Programing (When used with Easy523)

Notes:

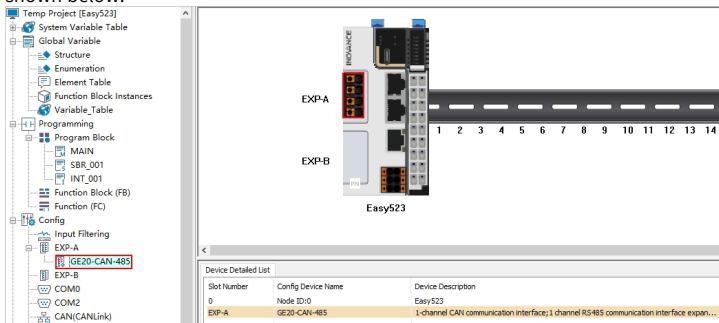
- The type ID of the GE20-CAN-485 expansion card is 15. The configured type of expansion card must be consistent with the type of expansion card actually installed.

You can view the configured expansion card type ID through the value of the variable name "_ExtCard [x].ConfigModule" in the system variable table "_SEYS-INFO", and the actual installed expansion card type ID through the value of the variable name "_ExtCard [x].MountedModule" in the system variable table "_SEYS-INFO".

- The GE20-CAN-485 expansion card only supports EXP-A.

1. Create a project.

2. In the Project Manager pane, go to Config > EXP-A. Right-click EXP-A and select GE20-CAN-485. Alternatively, go to Config > Module Config. Right-click Module Config and select Automatic Scan to add the GE20-CAN-485 expansion card, as shown below.



Slot Number	Config Device Name	Device Description
0	Node ID:0	Easy523
EXP-A	GE20-CAN-485	1-channel CAN communication interface; 1 channel RS485 communication interface expansion...

3. Modify the serial port configuration and CAN communication configuration as per needs. For specific methods, refer to "Serial Communication" and "CAN Communication" sections of the "H5U&Easy Series Programmable Logic Controller Programming Guide".

4. After successful compiling, download the project and run it.

6.2 InoProShop Programming Examples (When used with AM522)

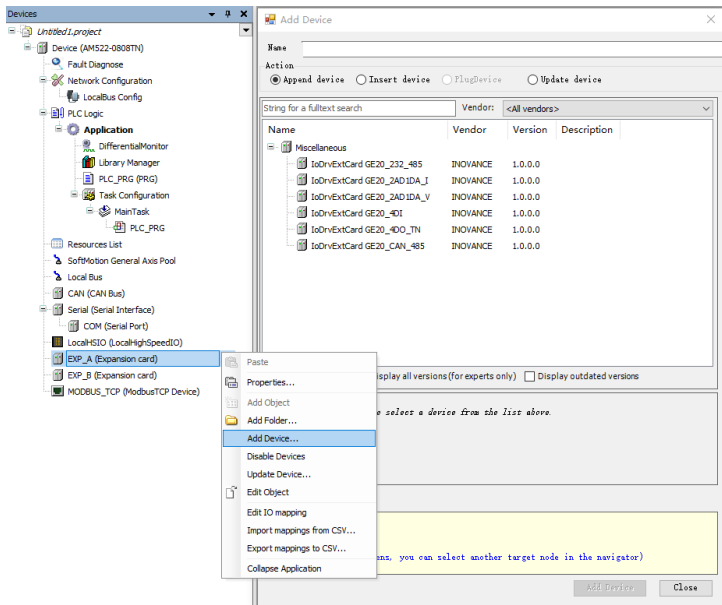
Note

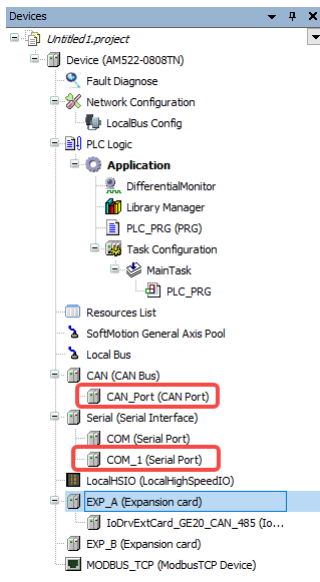
- The configured expansion card type must be consistent with the actually installed expansion card type.
- The GE20-CAN-485 expansion card only supports EXP-A.

Operating procedure

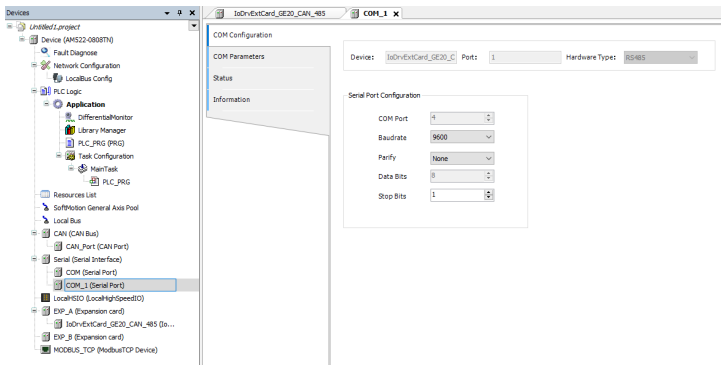
1. Create a project.
2. In the **Devices** window, right-click the navigation tree **EXP_A (Expansion card)** and select **Add Device**.
3. In the **Add Device** pop-up window, select **IoDrvExtCard_GE20_CAN_485**, click **Add Device**, and complete the addition.

Upon successful addition of the expansion card, the corresponding serial port configuration and CAN port configuration will be automatically generated., as shown in the following figure.

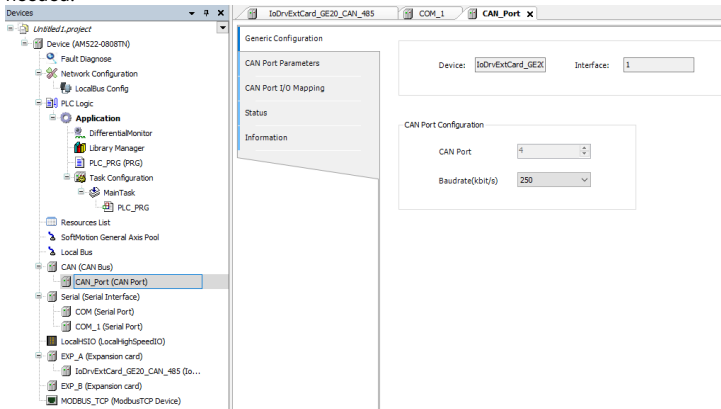




4. In the **Devices** window, double-click **COM_1 (Serial Port)** to enter the **COM Configuration** page, and modify the serial port configuration for the COM_1 port as needed.



5. In the **Devices** window, double-click **CAN_Port (CAN Port)** to enter the **Generic Configuration** page of CAN Port, and modify the CAN port configuration as needed.



6. After successful compiling, download the project and run it.

Service and Support

Should you encounter a safety accident during the use or operation of the product, or face challenges in operating and maintaining the equipment, which remain unresolved after the relevant documentation is consulted, we provide multiple channels to ensure prompt resolution:

- Channel #1: Contact service@inovance.com.
- Channel #2: Visit <https://www.inovance.com/global> to access document downloads, after-sales support, spare parts ordering, repair applications, and authenticity verification services.
- Channel #3: Download My Inovance app (<https://zshc-eu.inovance.com/download-pc/>) where you can access products info and documentation, and query product parameters.

We are committed to providing you with quick and professional technical support, and we look forward to your satisfaction and trust.