

CT-5721 Bus extended slave module

1 Module Description

The bus extended slave module is used to extend the bus. The bus extended slave module has no process data and configuration parameters.

2 Technical Parameters

General Parameters	
Power	Max.29mA@5.0Vdc
Mounting Type	35mmDIN-Rail
Size	115*14*75mm
Weight	65g
System Power	Nominal: 24Vdc, Range: 19.2~28.8Vdc Current:Max.2A@24VDC Protection: Overcurrent Protection, Reverse Protection: YES
Internal BUS Supply Current	Max. 2.5A@5VDC
Isolation	System Power to Field Power Isolation
Field Power Supply	Power Supply: 20.4~28.8V (Nominal 24VDC) Protection: Reverse Protection: YES
Field Power Supply Current	Max. DC 8A
Environment Specification	
Operating Temperature of Vertical Installation	-35°C~60°C
Operating Temperature of Horizontal Installation	-35°C~70°C
Relative Humidity	5~ 95%RH (No Condensation)
Storage Temperature	-40°C~85°C
Storage Humidity	5~ 95%RH (No Condensation)
Manufacturing Test Temperature	-40°C~75°C
Ingress Protection Rating	IP20
Bus parameter	
Bus Extension Spacing	No more than 8 meters
Number of Expansion Stations	No more than 5 stations



WARNING

UNEXPECTED EQUIPMENT OPERATION

Do not exceed any of the ratings specified in the environmental and electrical characteristics

table.

Failure to follow instructions specified by the manufacturer may result in serious consequences such as death, personal injury, or damage to equipment since the protection provided by the equipment may be impaired.

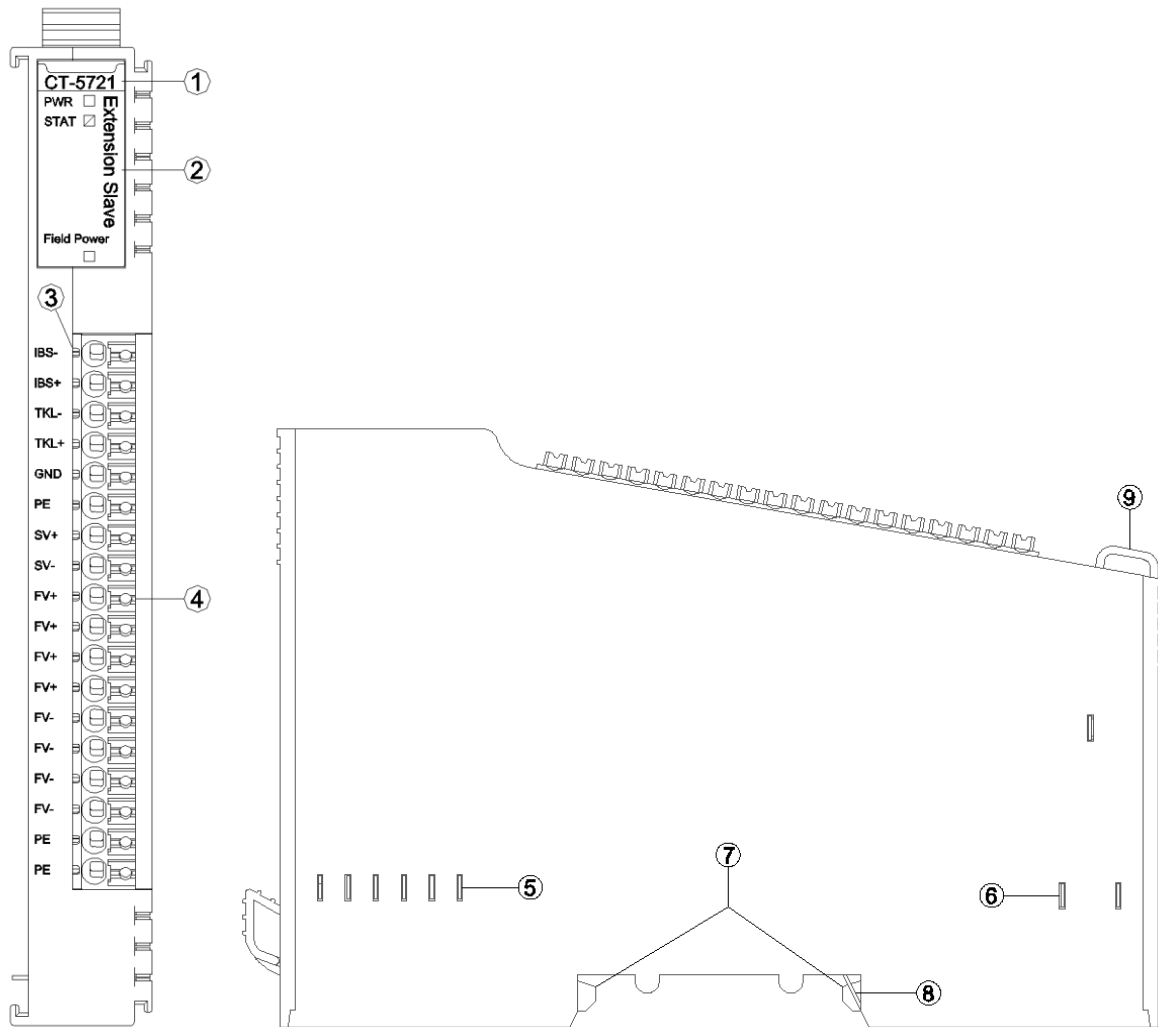
** AVERTISSEMENT**

FONCTIONNEMENT INATTENDU DE L'EQUIPEMENT

Ne dépassez aucune évaluation spécifiée dans le tableau de caractéristiques environnementales et électriques..

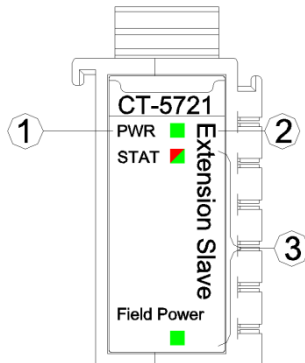
Le fait de ne pas suivre les instructions peut entraîner une défaillance de la protection fournie par l'équipement, ce qui peut entraîner des conséquences graves, comme des blessures ou des dommages à l'équipement.

3 Hardware Interface



- ① Module Type
- ② State indicator
- ③ Channel indicator (N/A)
- ④ Wiring Terminal and identification
- ⑤ Internal Bus
- ⑥ Field Power
- ⑦ Buckle
- ⑧ Grounding Spring Sheet
- ⑨ Fixed Wiring Harness

3.1 LED indicator definition



① System Power LED indicator (red)

② Bus State LED indicator (red/green)

PWR POWER STATE (RED)	Definition
ON	System Power Normal
OFF	System Power Failure
STAT Bus STATE (RED/GREEN)	Definition
Green slow flash (2.5Hz)	Module internal bus is not started
Red slow flash (2.5Hz)	Module internal bus offline
ON (GREEN)	Operation normal
Flash(2.5Hz) (RED/GREEN)	Upgrading mode
Flash(10Hz) (RED/GREEN)	Firmware Update
Double Flash (RED)	Module Exception, has been soft-restarted

! WARNING

UNEXPECTED EQUIPMENT OPERATION

By viewing the PW indicator, could determine the power supply status of a module. If the PW is steady green, the power supply is normal. Otherwise, the module cannot work properly.

When the module is initially powered on, there will be 3S for the backplane bus connection. After the backplane bus is initialized, STA is in the green steady state. If STA is in the green blinking state, it indicates that the backplane bus has not been initialized, and it needs to be powered off and restarted for re-initialization.

STA abnormal working state occurs during the normal operation of the module, please check the firmware version information of all modules, and consult ODOT technical support for details.

If a module is upgraded, check that all modules are in the normal state after the upgrade. Otherwise, an exception may occur.

Failure to follow instructions specified by the manufacturer may result in serious consequences such as death, personal injury, or damage to equipment since the protection provided by the equipment may be impaired.

 AVERTISSEMENT**FONCTIONNEMENT INATTENDU DE L'EQUIPEMENT**

En regardant l'état de l'indicateur de PW, jugez l'état d'alimentation du module. Le feu vert PW reste allumé et l'alimentation est normale. Autrement, le module ne fonctionnera pas correctement.

Lorsque le module est alimenté initialement, il y aura 3S pour la connexion de bus de backboard. STA est un état vert permanent après l'initialisation du bus de backboard. Si STA est en état de clignotement vert, cela signifie que l'initialisation du bus de backboard n'est pas passée et doit être redémarrée hors tension et réinitialisée.

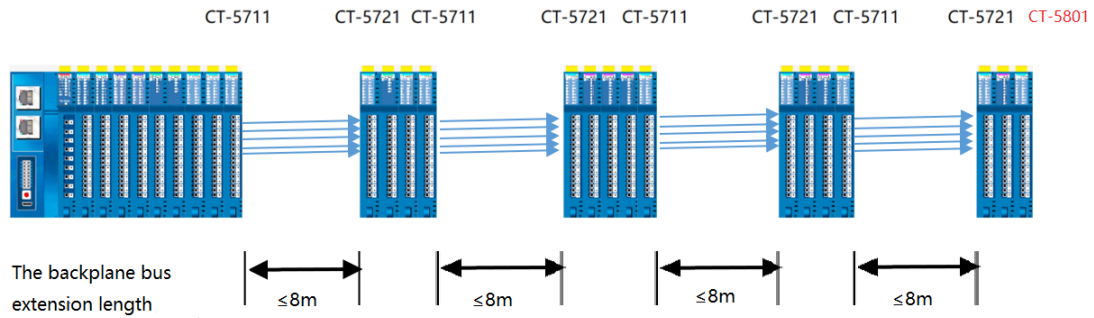
L'état de fonctionnement anormal de STA se produit pendant le fonctionnement normal du module, veuillez vérifier les informations de version du firmware de tous les modules, et consulter le support technique ODOT pour plus de détails.

Si le module a une opération de mise à niveau, après l'achèvement de la mise à niveau, le besoin de vérifier que tous les modules sont dans l'état normal avant de courir, sinon il conduira à une exception.

Le fait de ne pas suivre les instructions peut entraîner une défaillance de la protection fournie par l'équipement, ce qui peut entraîner des conséquences graves, comme des blessures ou des dommages à l'équipement.

4 Topological graph

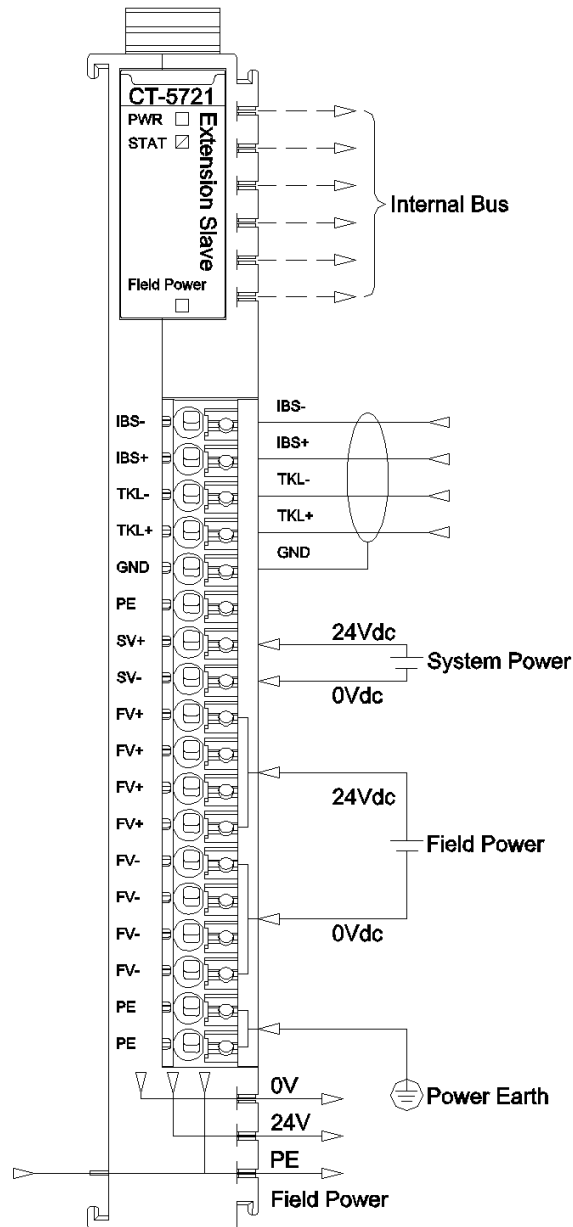
The backplane bus expansion length spacing is not more than 8 meters, the IO module expansion data is less than 32, and a terminal module CT-5801 must be equipped.



The number of expanded I/O modules is less than 32

5 Wiring

Bus extended cable requires 5 core shielded cable, IBS+ and IBS- must use twisted pair. PE guarantees a reliable grounding and the total length of the bus extended cable should not exceed 10 meters.



NOTICE

EQUIPMENT INOPERABLE

Do not crimp the spring terminal with more than the maximum pressure specified for the terminal. Otherwise, the resilience of the spring terminal may be damaged and the terminal rebound may be affected.

Do not press the spring terminal with a sharp tool when removing cable from the channel.
Otherwise, the spring terminal will be damaged.

Failure to follow these instructions may result in equipment damage.

A Dimension drawing

