

CANopen EX Communication Modules - AGP3000-CA1M and LT3000 CANopen Interface Modules



CA8-CANLT-01
CANopen Master for LT3000

HTB1C0DM9LP
CANopen Slave I/F for EXM I/O

CANopen Communication Modules

Models: CA8-CANLT-01, HTB1C0DM9LP

- Communicate to 3rd party CANopen Devices
- EXM Modules supported by HTB CANopen Slave
- 24V DC

Multiple Combinations | Mix and Match | GP-Pro EX Compatible

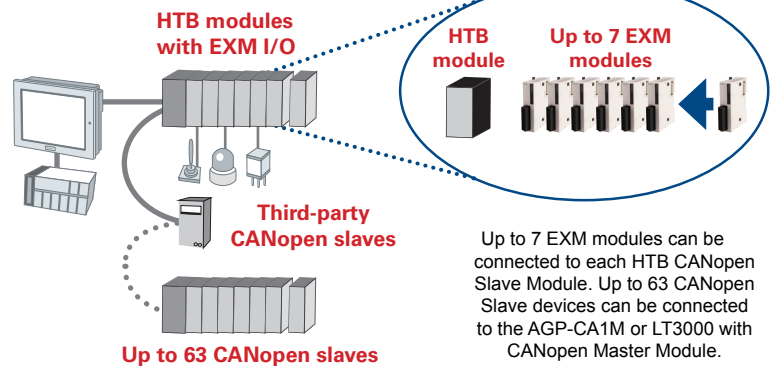
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Features:

- Compatible with AGP3000-CA1M and LT3000 models
- Add CANopen Master connectivity to the LT3000 Series
- Enable Pro-face EX I/O Module connectivity using the CANopen Slave Communication Module

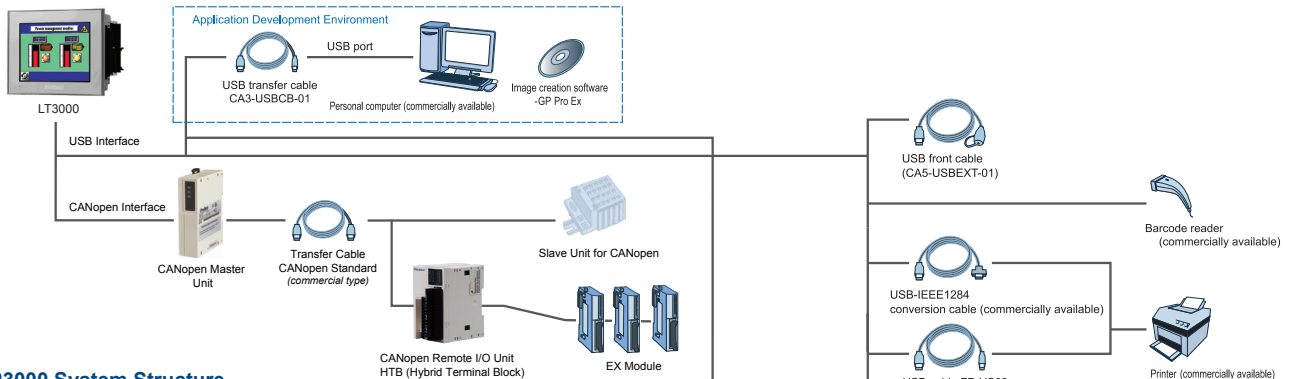
| Order Number | Description |
|--------------|--|
| CA8-CANLT-01 | CANopen Master Module for LT3000 Series |
| HTB1C0DM9LP | CANopen Slave Module for up to 7 EXM Modules (with built in 12 Digital Inputs, 8 Digital Outputs (2-Transistor & 6-Relay)) |

CANopen I/O Options

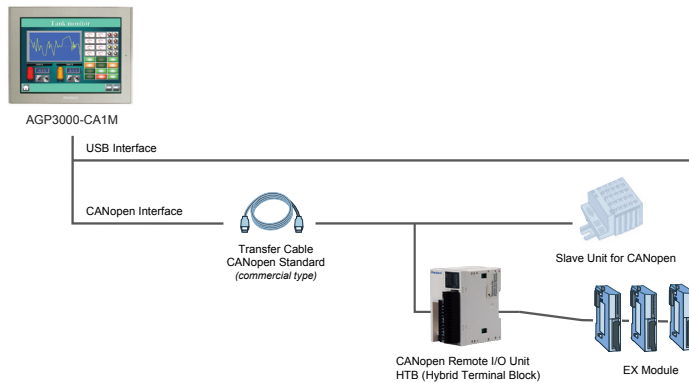


System Structure

LT3000 System Structure



AGP3000 System Structure



CANopen Master Module for LT3000 Series

| CA8-CANLT-01 Common Specifications | | |
|------------------------------------|---|--------------------------|
| CANopen Master | Application layer according to CiA DS301 | |
| Mounting | Clip to back of LT3000 Series (replaces any EX Modules on back of LT3000) | |
| Communication Type | 1:N | |
| Connection Method | Multi-drop connection | |
| Communication Method | CSMA/NBA, half duplex serial communication | |
| Supported message types | PDO (252 RPDO, 252 TPDO), SDO, NMT, SYNC, EMT | |
| Communication Speed / Distance | Baud Rate | Bus Length |
| | 1,000kbps | 20m [65ft] |
| | 800kbps | 40m [131ft] |
| | 500kbps | 100m [328ft] |
| | 250kbps | 250m [820ft] |
| | 125kbps | 500m [1640ft] |
| 50kbps | 1000m [3280ft] | |
| Number of Nodes | Up to 63 Slaves devices | |
| Supported Inputs/ Outputs | Discrete / Bit | 256 Inputs & 256 Outputs |
| | Analog / Integer | 64 Inputs & 64 Outputs |
| Connector | D-Sub 9pin Plug | |
| Power Consumption | 2.4W or less | |
| Weight | 0.5kg [1.1lb] | |
| External Dimensions | W 23.5mm [0.93in] X H 90mm [3.54in] X D 71mm [2.80in] (without connector) | |
| EDS File | available on www.hmisource.com/otasuke | |
| Configuration Software | GP-Pro EX V2.20 or newer | |

Software Compatibility



Powered by
Screen Editor
GP-Pro EX

HMI Development Software
(Version 2.20 or newer)

HTB1C0DM9LP CANopen Slave I/F for EX I/O Modules

| HTB1C0DM9LP Common Specifications | | |
|---|---|---|
| No. of EX Modules that can be connected | Up to 7 units per HTB | |
| Input Voltage | DC24V | |
| Rated Voltage | DC20.4 to 26.4V (including ripple) | |
| Power Consumption | 19W (Communication module with (max.) 7 EX modules.) | |
| Installation Configuration | Attachment via 35mm DIN rail | |
| Weight | 185g [0.4lb] max. (unit only) | |
| Input Specifications | | |
| Input Points | 12 points with common line | |
| Input Type | Source / Sink input | |
| Rated Input Current | 5mA / input (DC24V) (Inputs 0, 1, 6, 7), 7mA / input (DC24V) (Inputs 2 to 5 & 8 to 11) | |
| Input Impedance | 5.0kΩ (Inputs 0, 1, 6 & 7), 3.4kΩ (Inputs 2 to 5 & 8 to 11) | |
| Input Delay Time | OFF→ON | 35μs + filter value (Inputs 0, 1, 6, 7), 40μs + filter value (Inputs 2 to 5 & 8 to 11) |
| | ON→OFF | 45μs + filter value (Inputs 0, 1, 6, 7), 150μs + filter value (Inputs 2 to 5 & 8 to 11) |
| Isolation Method | "Between input terminals : not isolated Internal circuit : photocoupler isolated (isolation protection put to AC500V rms)" | |
| Output Specifications (Q0 , Q1) | | |
| Output Points | 2 points | |
| Output Type | Source output | |
| Common Design | 2 points / 1common | |
| Maximum Load Current | 1A per common line | |
| Voltage drop (on voltage) | DC1V (max.) (voltage between COM and output terminals when output is on) | |
| Output Delay Time | OFF→ON | 5μs (max.) |
| | ON→OFF | 5μs(max.) |
| Isolation Method | Between output terminal and internal circuit : photocoupler isolated (isolation protection up to AC500 V rms), Between output terminals: not isolated | |
| Output Specifications (Q2~Q7) | | |
| Output Points | 6 points | |
| Output Type | Relay output | |
| Common Design | COM1 : 3 , NO contacts, COM2 : 2 , NO contacts, COM3 : 1 , NO contacts | |
| Maximum Load Current | 2A per output , 8A per common line | |
| Dielectric strength | Between output to internal circuit: AC1500Vrms, 1min. Between output to terminals (COMs): AC750Vrms, 1min. | |
| Output Delay Time | OFF→ON | 10ms(max.) (Bounce time not included) |
| | ON→OFF | 5ms(max.) (Bounce time not included) |

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