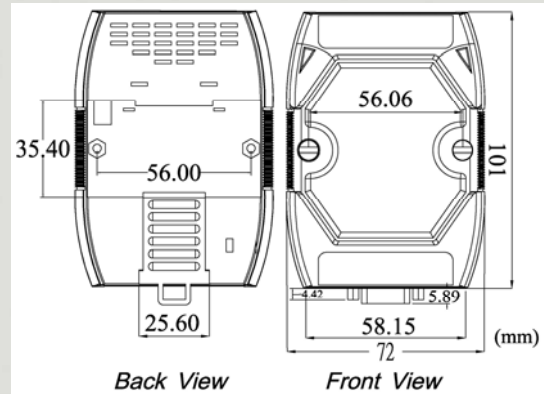


USB/DeviceNet Master Converter



I-7565-DNM



Dimensions

The I-7565-DNM is a DeviceNet master solution for USB interface built-in 80 MHz 186CPU. It acts the DeviceNet master device and communicates with the remote slave devices. There is a complete DeviceNet protocol firmware in the I-7565-DNM. Users can easily access the slave device via I-7565-DNM by using USB port and need not to deal with the complex DeviceNet protocol. By using the powerful Utility tool, user can diagnose the slave devices without any programming. The various development tools are supported for VB, VC, and BCB...

Features

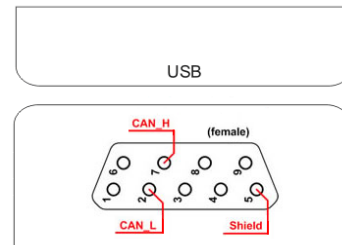
- Fully compliant with USB 1.1/2.0(Full Speed)
- No external power supply is required as I-7565 takes it's power from the USB bus
- DeviceNet Version: Volume I & II, Release 2.0
- Programmable Master MAC ID and Baud Rate.
- Baud Rate: 125K, 250K, 500K bps
- Support Group 2 and UCMM connection
- I/O Operating Modes: Poll, Bit-Strobe, Change of State / Cyclic
- I/O Length: 512 Bytes max (Input/Output) per slave
- Slave Node : 63 nodes max
- Support Auto-Search slave device function.
- Support on-line adding and removing devices
- Support Auto-detect Group 2 and UCMM device
- Auto-Reconnect when the connection is broken
- Status LED: RUN, MS, NS
- Free Software development tools for Windows
- Windows 98/ME/2000/XP/Linux drivers supported

Utility Features

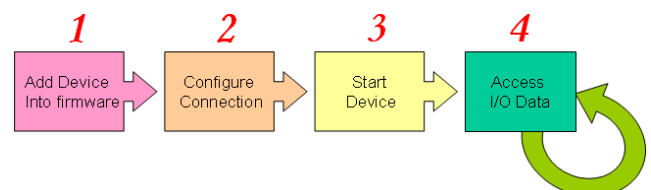


This utility supports to search all devices and specific devices in the network and can configure the I/O connection of the devices by searching devices or manual setting. It can easily to access the I/O data of all the slave devices.

Pin Assignments



Establish Connection Flowchart



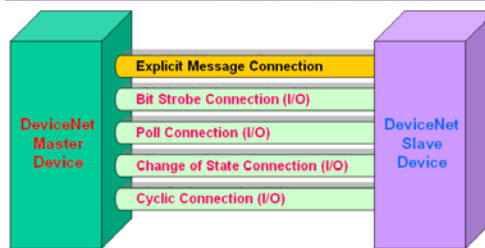
Hardware Specifications

| Hardware | |
|---------------------------|----------------------------------------------------------------------------|
| CPU | 80186, 80 MHz or compatible |
| SRAM/Flash/EEPROM | 512 KB / 512 KB / 16 KB |
| ESD Protection | 2 kV class A and 3 kV class B |
| CAN Interface | |
| Controller | NXP SJA1000T with 16 MHz clock |
| Transceiver | NXP 82C250 |
| Channel number | 1 |
| Connector | 9-pin male D-Sub (CAN_GND, CAN_L, CAN_SHLD, CAN_H, CAN_V+, N/A for others) |
| Baud Rate (bps) | 125 k, 250 k, 500 k |
| Transmission Distance (m) | Depend on baud rate (for example, max. 1000 m at 50 kbps) |
| Isolation | 3000 V _{DC} for DC-to-DC, 2500 V _{rms} for photo-couple |
| Terminator Resistor | Jumper for 120 Ω terminator resistor |
| Specification | ISO-11898-2, CAN 2.0A and CAN 2.0B |
| Protocol | DeviceNet Volumn I ver2.0, Volumn II ver2.0 |
| USB Interface | |
| Connector | USB Type B |
| Transmission speed | 921.6 kbps |
| Specification | USB 1.1 and USB 2.0 |
| LED | |
| Round LED | PWR LED, RUN LED, NS LED, MS LED |
| Software | |
| Driver | Windows 98/ME/NT/2K/XP |
| Library | VB 6.0, VC++ 6.0, BCB 6.0 |
| Power | |
| Power supply | By USB interface |
| Power Consumption | 3 W |
| Mechanism | |
| Installation | DIN-Rail |
| Dimensions | 72mm x 101mm x 33mm (W x L x H) |
| Environment | |
| Operating Temp. | -25 ~ 75 °C |
| Storage Temp. | -40 ~ 80 °C |
| Humidity | 5 ~ 95% RH, non-condensing |

LED indicators

| LED | Description |
|---------|------------------------------------------------------------------------|
| RUN LED | Indicates the firmware status |
| MS LED | Indicates any slave devices which is disconnecting with the I-7565-DNM |
| NS LED | Indicates that there are errors on the bus |

DeviceNet Messaging



Application



Ordering Information

I-7565-DNM-G CR USB / DeviceNet Master Converter Module (RoHS)

Art. No. 121706