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IDENTIFICATION SYSTEMS

Network interface card

BRMO 80 / ETH-IP

DESCRIPTION

BRMO 80 / ETH-IP is a network interface system that can manage 2 until 8 MOF RFID readers simultaneously. It can ensure automatic reads of UID (unique identifier) or 8 bytes in TAG memory.

It could be configured into 3 modes :

- transparent => supervisor can send read/write commands to each reader through BRMO 80
- automatic => the read UID or memory sector is automatically returned to supervisor
- automatic/transparent => thanks a specific command supervisor can switch between the 2 previous modes

Exchanges with supervisor are done over a Ethernet link (10/100 Mbauds) where EtherNet/IP protocol is used (managed by ODVA).

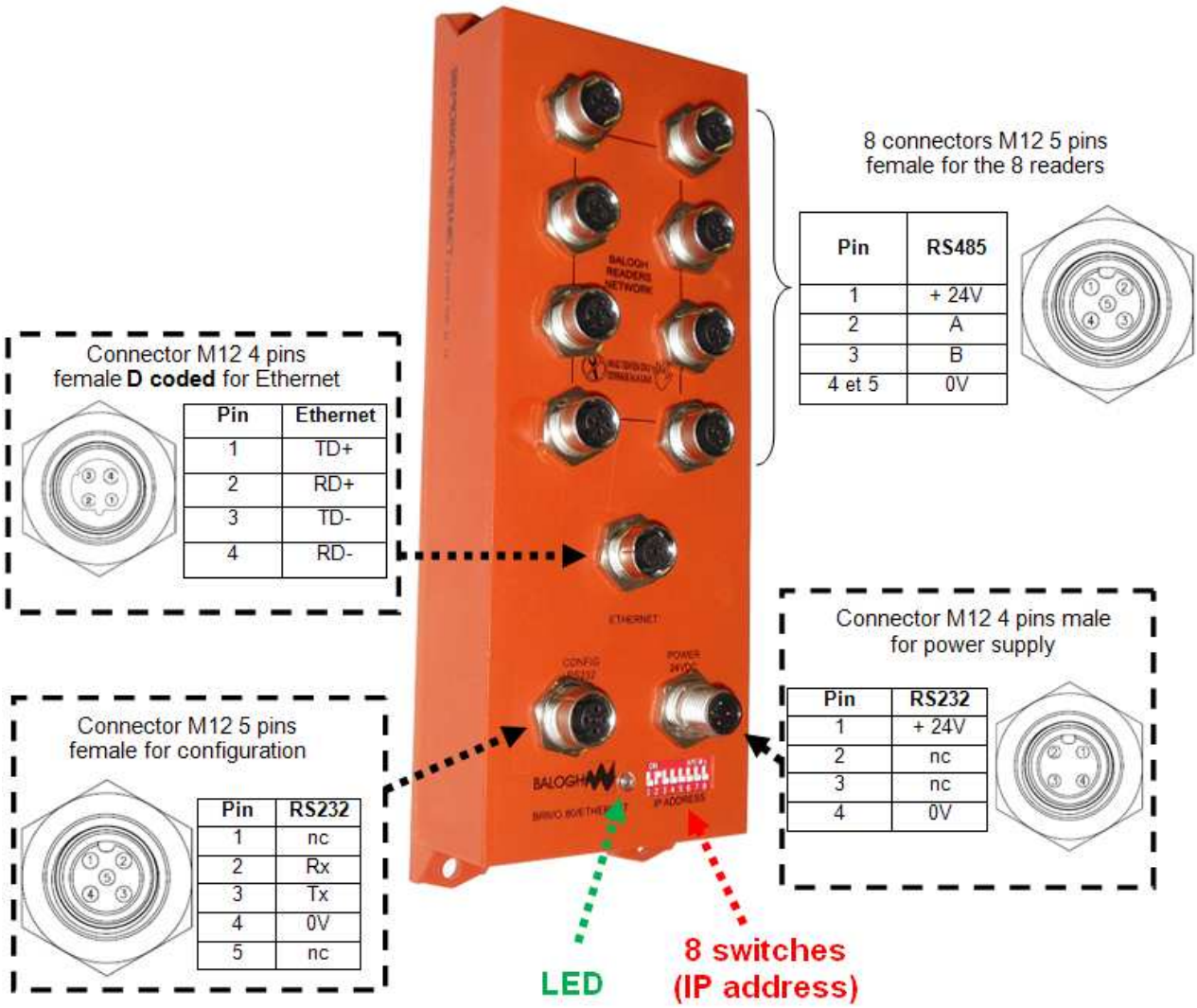
RFID readers network use a RS485 bus (at 57600 bauds without parity) with Modbus ® / Jbus ® protocol.

DATA FOR ASSEMBLY

MODBUS is proprietary brand of Modicon, JBUS of April.

CONNECTIONS

Shield connection for cables connected to the sockets (all are M12 type, female except 24V) :
- Power supply: no shield. Serial link: optional shield.
- Network: the overall shield must be in contact over 360° to the metallic cable connector housing.
- MOF readers: refer to the reader data sheet for cable requirements;
• cables with overall shield: the overall shield must compulsorily be in contact over 360° to the meta llic cable connector housing.
• cables with overall shield + shielded pairs: the overall shield must compulsorily be in contact over 360° to the metallic cable connector housing, while the pair shields are connected to pin 5 (optional);
• cables with shielded pairs, without overall shield: the pair shields must be connected to the metallic cable connector housing.



LED

Indicator LED:

At power on, the led is successively orange, green, red and stays green.

During automatic BRMO 80 reboot (change of configuration), led blinks in orange until it reboots.

When a dysfunctioning is detected, the led lights in red as long as the problem exists.

SWITCHES

Switches function:

BRM0 80 / ETH-IP has 8 switches so as to set the last digit of the device IP address.
Other network parameters (network address, mask address ...) are modifiable thanks to configuration interface on RS232 link.