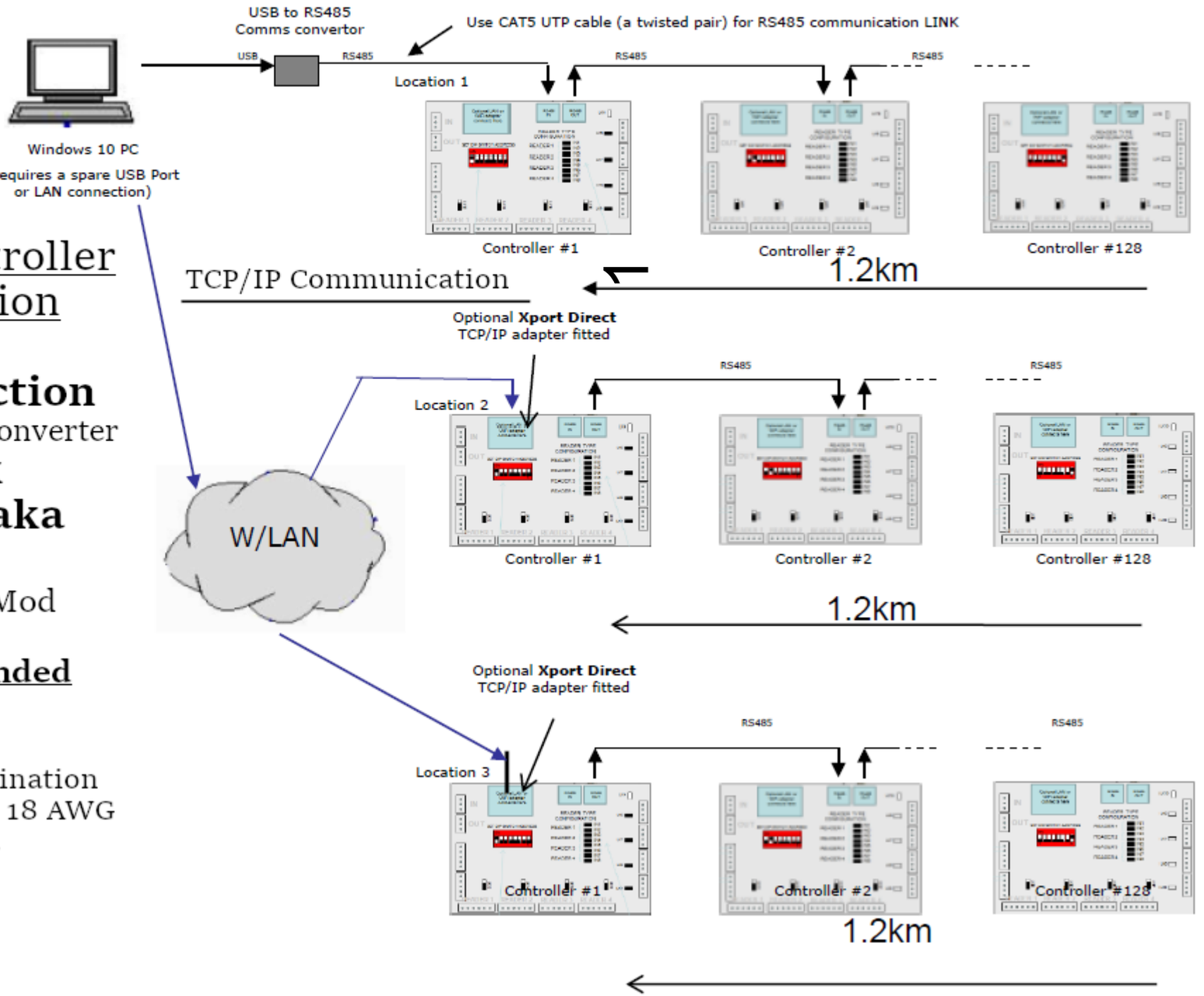
STOR LLC GUARD

Manufacturing security solutions for the self storage industry

Direct Serial Communication



Options of Controller Communication

***Local Connection**

Use of the USB COM Converter

***Network Connection aka TCP/IP**

Use of the LAN Mod hardware

Cable Recommended Guage

22-18 Guage

*Note that Blue Termination blocks can only fit one 18 AWG wire at a time.

Power Notes:
- Recommended cabling – Figure 8
- Do not use plug pack power supplies.
- Recommend 13.8 Volt 2A power supply with battery backup. (Can power several controllers)
- Check all devices current usage.

Typically: Board 400mA, Strike 200mA, Maglock 1000mA, Reader 20mA.
- There are two power terminals. Connect the power supply to the 'IN' terminal. The 'OUT' power terminal can be used as a power 'output'.

From previous controller or Comms Convertor

To next controller

Comms Cabling Notes:
- Recommended cable type – CAT5
- Daisy Chain configuration
- Maximum distance is 1.2km from PC to last controller
- RJ45 connector. Use a 'straight through' network cable
- These connection are not for TCP/IP connection
- Pin 1 = A, Pin 2 = B, Pin 3+.4 = GND
- If connecting to terminal connection – A connects to A, B connects to B and GND connects to GND on the next controller.
- LK19 is a termination link. It should be put on the last controller in the daisy chain.

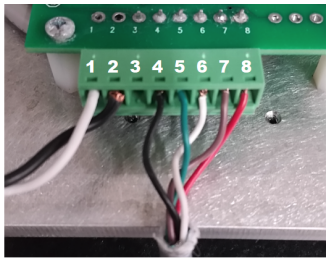
POWER
+12 V
GND
+12 V
GND
IN
OUT
RS485 IN
RS485 OUT
Optional LAN or WiFi adapter connects here
RS485 IN
RS485 OUT
LK19
LK6
LK7
LK8
LK9
READER TYPE CONFIGURATION
READER 1 IN1 IN2
READER 2 IN3 IN4
READER 3 IN5 IN6
READER 4 IN7 IN8
SET DIP SWITCH ADDRESS
ON
1
8
LK11
LK13
LK15
LK17
READER 1
READER 2
READER 3
READER 4
NC1 COM1 NO1 GND
NC2 COM2 NO2 GND
NC3 COM3 NO3 GND
NC4 COM4 NO4 GND
RELAY 1
RELAY 2
RELAY 3
RELAY 4

EXIT REQUEST
GND
D1_RQE
D2_RQE
D3_RQE
D4_RQE

DOOR MONITORING
GND
D1_REED
D2_REED
D3_REED
D4_REED

Exit Request Button and Door Monitoring inputs
- Must be a dry contact (no voltage)
- Connect one wire to Ground and the other wire to the specific input.

GND IN1 IN2 OU1 +5V +12V
GND IN3 IN4 OU2 +5V +12V
GND IN5 IN6 OU3 +5V +12V
GND IN7 IN8 OU4 +5V +12V



Pin 4 Ground (Black)
Pin 5 Data0 (Green)
Pin 6 Data1 (White)
Pin 7 Green Led (Brown)
Pin 8 Power (Red) +12 volts

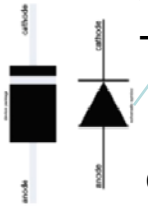
WIEGAND

Optional Connection to Intercom
Pin 1 (+) Positive
Pin 2 (-) Negative

Reader Cabling notes:
- Maximum 100 meters from controller
- Recommended cable type – 6 core shielded
- Do not wire 2 readers into the 1 reader port

Set Board address ID
- Set the ID in binary (1 to 128)
- Each controller must have a unique ID
- It does not matter what the number order is as\long as no two controllers have the same number.

Configure the board for the number of readers:
- 1 Reader Only: Put links IN1,2 – ON, IN3-8 – OFF
- 2 Readers Only: Put links IN1-4 – ON, IN5-8 – OFF
- 3 Readers Only: Put links IN1-6 – ON, IN7-8 – OFF
- 4 Readers Only: Put links IN1-8 – ON



+

GND

Gate Operators/Door Strikes/Magnetic Locks

Relay Cabling Notes:
- Recommended cable type – Figure 8
- Must fit a diode at the lock
- NC = Normally Closed Circuit (To Common)
- NO = Normally Open Circuit (To Common)
- Relays can be reversed (energised) by software for fail safe operation.
- Put LK6-9 on to put +12 volts on each relay common pin.