Architecture & Scenario's

Control Board Used as Master or Router if needed

1 x USB-C 1 x UART 1XDisplay	Emergency Buttons Start, Pause	1 x Expansion Board Connector 2 xSlot for ESP32 Module
Ethernet / TCIP	2 x RS 232	2 x RS-485
DIO x 12	Analog x 2	EtherCat
ESP32 Slot		

Max MTU

Control Board

2 x USB-C 1 x UART 1XDisplay	Emergency Buttons Start, Pause	1 x Expansion Board Connector 2 xSlot for ESP32 Module
Ethernet / TCIP	2 x RS 232	2 x RS-485
DIO x 12	Analog x 2	EtherCat
ESP32 Slot		

- MTU 1
- MTU 2
- MTU 3

Control Board

2 x USB-C 1 x UART 1XDisplay	Emergency Buttons Start, Pause	1 x Expansion Board Connector 2 xSlot for ESP32 Module
Ethernet / TCIP	2 x RS 232	2 x RS-485
DIO x 12	Analog x 2	EtherCat
ESP32 Slot		

Servo Driver Board (MTU)

Servo Motor x 4	Servo Motor x 4	1 x RS-485	DB 25 Connector for connecting to Terminal Block
		1 x RS-232	Connector Sockets for directly connecting motor
		1 x USB	
Servo Motor x 4	Servo Motor x 4	1 x EtherCat	
		8 x DIO	Power Connector (for Isolated Power)

Control Board

2 x USB-C 1 x UART 1XDisplay	Emergency Buttons Start, Pause	1 x Expansion Board Connector 2 xSlot for ESP32 Module
Ethernet / TCIP	2 x RS 232	2 x RS-485
DIO x 12	Analog x 2	EtherCat
ESP32 Slot		

Stepper Board (MTU)

Stepper Motor x 4	Stepper Motor x 4	1 x RS-485	DB 25 Connector for connecting to Terminal Block
		1 x RS-232	Connector Sockets for directly connecting motor
		1 x USB	
Stepper Motor x 4	Stepper Motor x 4	1 x EtherCat	
		8 x DIO	Power Connector (for Isolated Power)

Control Board

2 x USB-C 1 x UART 1XDisplay	Emergency Buttons Start, Pause	1 x Expansion Board Connector 2 xSlot for ESP32 Module
Ethernet / TCIP	2 x RS 232	2 x RS-485
DIO x 12	Analog x 2	EtherCat
ESP32 Slot		

BLDC Driver Board (MTU)

BLDC Motor X 4	BLDC Motor X 4	1 x RS-485	DB 25 Connector for connecting to Terminal Block
		1 x RS-232	Connector Sockets for directly connecting motor
		1 x USB	
BLDC Motor X 4	BLDC Motor X 4	1 x EtherCat	
		8 x DIO	Power Connector (for Isolated Power)

Control Board

2 x USB-C 1 x UART 1XDisplay	Emergency Buttons Start, Pause	1 x Expansion Board Connector 2 xSlot for ESP32 Module
Ethernet / TCIP	2 x RS 232	2 x RS-485
DIO x 12	Analog x 2	EtherCat
ESP32 Slot		

Solenoid Switch Driver Board (MTU)

Solenoid Switches x 4	Solenoid Switches x 4	1 x RS-485	DB 25 Connector for connecting to Terminal Block
		1 x RS-232	Connector Sockets for directly connecting motor
		1 x USB	
Solenoid Swatches x 4	Solenoid Switches x 4	1 x EtherCat	
		8 x DIO	Power Connector (for Isolated Power)

Control Board

2 x USB-C 1 x UART 1XDisplay	Emergency Buttons Start, Pause	1 x Expansion Board Connector 2 xSlot for ESP32 Module
Ethernet / TCIP	2 x RS 232 (for RFID)	2 x RS-485
DIO x 12	Analog x 2	EtherCat
ESP32 Slot		

Relay Driver Board (12V, 24V, 48V, 5 W) (MTU)

Relay X 4	Rekay X 4	1 x RS-485	DB 25 Connector for connecting to Terminal Block
		1 x RS-232	Connector Sockets for directly connecting motor
		1 x USB	
Relay X 4	Relay X 4	1 x EtherCat	
		8 x DIO	Power Connector (for Isolated Power)

Control Board

2 x USB-C 1 x UART 1XDisplay	Emergency Buttons Start, Pause	1 x Expansion Board Connector 2 xSlot for ESP32 Module
Ethernet / TCIP	2 x RS 232 (for RFID)	2 x RS-485
DIO x 12	Analog x 2	EtherCat
ESP32 Slot		

Relay Driver Board 110V-240V 10 A (MTU)

Relay X 4	Rekay X 4	1 x RS-485	DB 25 Connector for connecting to Terminal Block
		1 x RS-232	Connector Sockets for directly connecting motor
		1 x USB	
Relay X 4	Relay X 4	1 x EtherCat	
		8 x DIO	Power Connector (for Isolated Power)