

Doc no: TE-M12E16-02	 Sharebox	Written by
Date: 30.08.23		Morten Hanssen
Revision no	m28, m12 + e16 Installation	
01		

Installation of m28 by combining m12 and e16 Cabinets



The purpose of this guide is to help reduce the risk of damage and error during installation.

You will find this process straightforward.

Please note that images are for illustration purposes only. Colors and product variants may vary.

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Tools for installing the wall-mount frames.



In order to align and mount the wall-mount frames and the cabinets, you need a drill, a level and measuring tape.

Wall-mount frames



Please note: The frame with a top lip shall be mounted to the right.

The distance from the floor to the top of the frames is 170 centimeters (approximately 67 inches).



The frames need to be at a distance of 88 millimeters, $3 \frac{15}{32}$ inches, measured between the adjacent holes in the frames, as shown.

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An Ethernet cable runs between the two cabinets. Therefore, you need to remove a small recess in the frames, approximately 25 centimeters from the top. Do this on both frames.

Assembly/ disassembly levers



The cabinet hooks on to the wall-mount frame. Insert the levers on both sides inside of each cabinet.

If it would be necessary to lift the cabinet off the wall at some point, remember to unhook the cabinet. Also, make sure to pull out the levers on both sides.

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Master/extension, left-to-right direction



Please note: Always mount the master m12 cabinet to the left and the extension module e16 to the right.

Curved side panels on the outer sides,
straight side panels in the middle.

Connecting m12 and e16 control boards

The purpose of internal cabling is to establish communications between the two (or more) cabinets.

Altered settings on the control boards are also necessary.

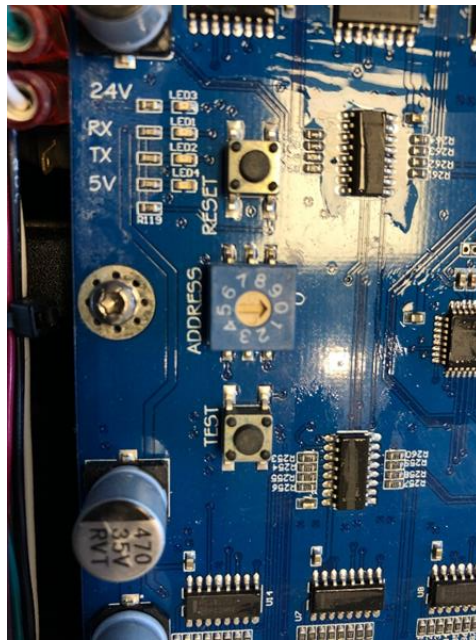
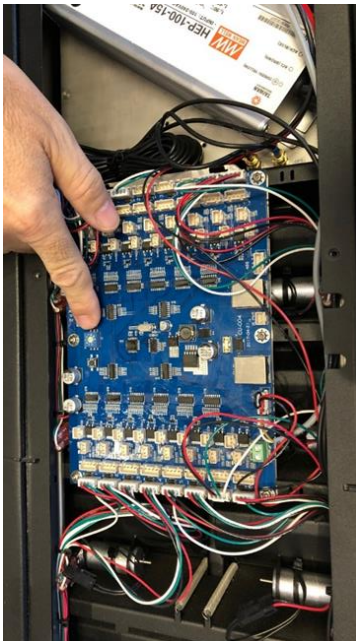
Control board rotary switch settings



Remove the back plates of the m12 and the e16 cabinets.

Identify the rotary switch on the left side of the blue control board in each cabinet.

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In m12, set the rotary switch to 0 (zero).

In e16, set the rotary switch to 1 (one).

For each additional extension module, rotate the switch clockwise in that cabinet, adding value by +1.

Internal Ethernet cabling connectors

Locate the two Ethernet connectors on the right side of the control board. Marked "CU IN" and "CU OUT". Connect an Ethernet cable between the control boards.

On m12, connect Ethernet cable to CU OUT.

On e16, connect Ethernet cable to CU IN.

Mount the back plates on the cabinets.

Unite the two cabinets.



Please note:

It is necessary to change side panels, right side of the master cabinet and left side of the extension cabinet.

The purpose is to have a flush joint between the two cabinets.

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Unscrew the screws on the top of the cabinet. Marked with the blue circles in the illustration.

Remove the top lid. Unscrew the two screws on the top lid. Marked with blue circles in the illustration.

Preferably aided by a second person, lift the cabinets, with correct side panels fitted, on to the wall-mount frames.

Electric connection and power on

Please see the appendix regarding connections, variations in AC voltage, wire colors and connector plugs.



Open the front cover using the supplied key.

Connect the power cable and push the power switch, marked with a blue circle in upper left corner of the image.

Shut the front cover and lock with the supplied key.



Fasten the top lids with the screws on top of the cabinet, marked with the blue circles in the image.

Remember: Hand the key over to the customer. Always store the key in a safe place.

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Ready for use

After power on and connectivity on, the Sharebox cabinet is ready for use. If you have any questions, do not hesitate to contact your local agent or Sharebox support.

Appendix

External Connections

Power and Signal are separated.

The Data cable is shielded and grounded at the connection point.

Cable-tie points are provided.

Suggested spec for incoming cables. Consult a qualified electrician if needed.

Type of cable	Cable-spec	Connector in cabinet
Power Cable 110-230V AC	H07 RN-F, 3 x 2.5kv (OD12mm)	SDS 316 AUX
Data Cable	Cat 5 or better. Shielded	RJ45 Grounded

The cabinet communication is always started by the cabinet using these ports:

1. Outgoing TCP/UDP Port 5938 for Teamviewer
2. Outgoing TCP/UDP Port 5959 to 5970 for Remoteit
3. Outgoing TCP/UDP Port 443 towards Sharebox server
(IP 185.67.45.109)

TeamViewer:

Outbound connection: TCP/UDP Port 5938

Destination IP addresses: *.teamviewer.com

Additional information can be found here:

<https://community.teamviewer.com/t5/Knowledge-Base/Which-ports-are-used-by-TeamViewer/ta-p/4139#toc-hId-792961694>

RemotelT:

Outbound connection: ports 443 TCP and 80 TCP, UDP from port 5959 to 5970 Destination IP addresses: *.remot3.it, *.rt3.io

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AC Voltage and plug variations between U.S. and UK.

Europe and the United Kingdom use different plugs to those in the United States, and the colour of the wiring is different.

Another distinct difference is the voltage: In the U.S., it's between 110 and 120 volts, but in Europe, it's 220 volts.

Most of Europe, including the U.K., conforms to the International Electrochemical Commission (IEC) code.

Throughout Europe the colors for the plug wiring are consistent.

Rewiring a European plug for the U.S. market.

Three wires need to be connected:

- Green and yellow striped for ground
- Blue for neutral
- Brown, meaning hot.