



MHTi-SMD-KIT

The **SMD-KIT** is an integrated intelligent upgrade solution designed for height-adjustable desk systems. It provides advanced functionality through **real-time occupancy detection** and comprehensive **indoor environmental monitoring**, including temperature, humidity, CO₂, and ambient light levels. The system features seamless integration with established sit/stand desk control protocols and is powered by **Power over Ethernet (PoE)**, adhering to the IEEE 802.3bt standard for efficient power delivery and streamlined deployment. The SMD-KIT combines robust performance with simplified installation within modern workspace infrastructures.

ELECTRICAL SPECIFICATIONS

MHT PD Interface	IEEE 802.3bt PD Type 4, Class 8 compliant input with LLDP extensions for negotiating power above 30W using all four pairs
Input	2x 50-60VDC / 1.8A / 90W maximum
Output	Nominally 30V 0.5A for desk battery or 2.4A for full power desk 12/19/20V
Sensors	Occupancy, temperature, humidity
Nominal Standby Power	2W
PoE Input Connection	2x RJ45 jack for CAT5e/6/6A cable to PoE PSE device
Device Type	Class 2 electrical device

PRODUCT FEATURES

- 90W PoE Gateway and RS-485 Desk Interface
- Power both full power desk and high-power desk battery.
- 2x USB-C outputs for laptop/device charging.
- 1x or 2x USB-A outputs for charging smaller devices.
- 2.5mm barrel jack for powering single and dual monitors.
- Real-time occupancy, temperature, humidity, and pressure monitoring.
- Task lighting

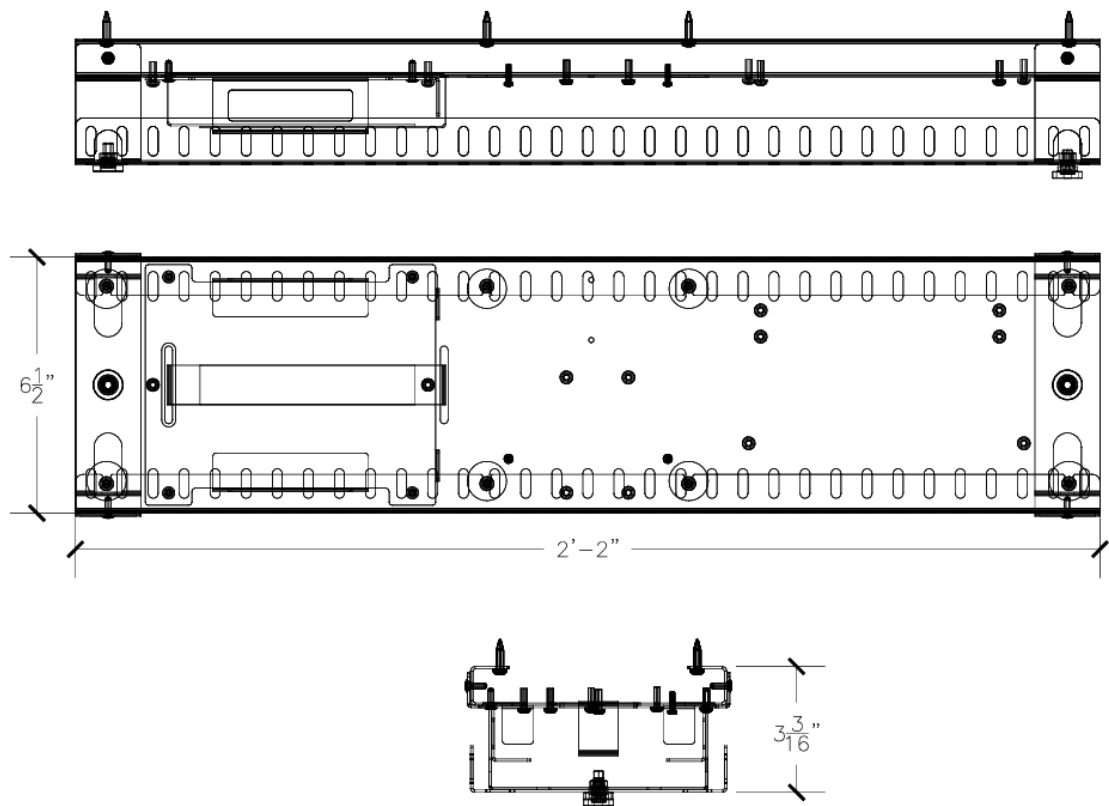
APPLICATIONS

- Smart Buildings and Offices
- Powered sit-stand desks
- Occupancy and Environmental Sensing

PRODUCT DIMENSIONS

Dimensions Overall ¹	26"(660 mm)L x 6.5"(165 mm) W x 3.1875" (803962 mm) H
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- 1) It has eight mounting screw holes and a removable cover. This SMD-KIT is intended to be mounted beneath the desk tabletop.



NODE ENVIRONMENTAL REQUIREMENTS

The product should be used for indoor applications. Liquids and dust can ingress through small gaps around connections. Avoid installation locations that can become wet or are particularly dusty.

Operating Temperature	-20C to 40C
Operating Environment	For dry or damp locations
Operating Humidity	10% to 80% RH non-condensing
Storage Temperature	-20C to 70C
Storage Humidity	5% to 95% RH non-condensing



SMD-KIT Product Family: Model Overview

The SMD-KIT intelligent upgrade solution offers a range of models tailored to specific desk control systems and power output requirements. Each model provides core smart functionalities while differing in peripheral connectivity and power delivery options.

All kits feature:

- Real-time occupancy, temperature, humidity, and pressure monitoring.
- 2x USB-C outputs for laptop/device charging.
- 1x or 2x USB-A outputs for charging (depending on the SMD-KIT version).
- 19Vdc or 20Vdc for powering monitor (depending on the SMD-KIT version).
- Optional Battery for Linak and Jiechang desk options.
- Optional task light

Linak Desk Type:

Ordering	Features	Components	Monitor Power	Battery	Task Light
MHTi-SMD-KIT-L-USBC-12V	• 2x USB-C • 2x USB-A • 2x 12Vdc (2.5mm)	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-L MHTi-SMD-DOCK_12V MHTi-LINAK-BA001* TPPi-LEPRO-TASKLIGHT** Interconnection cables ***	No	*Optional	**Optional
MHTi-SMD-KIT-L-USBC-20V	• 2x USB-C • 2x USB-A • 2x 20Vdc (2.5mm)	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-L MHTi-SMD-DOCK_2_20V MHTi-LINAK-BA001* TPPi-LEPRO-TASKLIGHT** Interconnection cables ***	Yes	*Optional	**Optional
MHTi-SMD-KIT-L-USBC-USBA	• 2x USB-C • 1x USB-A	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-L MHTi-NODE-90-CV-USBC MHTi-LINAK-CHUSBC2A1-000 MHTi-LINAK-BA001* TPPi-LEPRO-TASKLIGHT** Interconnection cables ***	No	*Optional	**Optional
MHTi-SMD-KIT-L-USBC-USBA-19V	• 2x USB-C • 1x USB-A • 2x 19Vdc (2.5mm)	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-L MHTi-NODE-90-CV-USBC MHTi-NODE-90-CV-19V MHTi-LINAK-CHUSBC2A1-000 MHTi-LINAK-BA001* TPPi-LEPRO-TASKLIGHT** Interconnection cables ***	Yes	*Optional	**Optional

Note: ***Multiple interconnection cables added based on the SMD-KIT version.



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MHT Technologies, reserves the right to make any design changes for continuous improvement which will not affect the overall appearance or performance.

Linak Desk Type Gen 2 (coming soon!):

Ordering	Features	Components	Monitor Power	Battery	Task Light
MHTi-SMD-KIT-L-GEN2	2x PoE 1x data 1x desk 20V/120W Power Share	MHTi-NODE-90-CVRS485 MHTi-NODE-90-CVSDO MHTi-SMD-INT-L MHTi-SPLT-1X4 MHTi-LINAK-BA001* MHTi-DELL-WD19-130W** Interconnection cables ***	Yes^	*Optional	No

Note: ** A Dell WD19 docking station with 2x 19V-20V 24" monitors.

^ 1x 19V-20V 44" curved monitor with integrated docking station.

Jiechang Desk Type:

Ordering	Features	Components	Monitor Power	Battery	Task Light
MHTi-SMD-KIT-J-USBC-12V	2x USB-C 2x USB-A 2x 12Vdc (2.5mm)	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-J MHTi-SMD-DOCK_2_12V MHTi-JIECANG-BATT* TPPI-LEPRO-TASKLIGHT** Interconnection cables ***	No	*Optional	**Optional
MHTi-SMD-KIT-J-USBC-20V	2x USB-C 2x USB-A 2x 20Vdc (2.5mm)	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-J MHTi-SMD-DOCK_2_20V MHTi- JIECANG-BATT * TPPI-LEPRO-TASKLIGHT** Interconnection cables ***	Yes	*Optional	**Optional
MHTi-SMD-KIT-J-USBC-USBA	2x USB-C 1x USB-A	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-J MHTi-NODE-90-CV-USBC MHTi-LINAK-CHUSBC2A1-000 MHTi- JIECANG-BATT * TPPI-LEPRO-TASKLIGHT** Interconnection cables ***	NO	*Optional	**Optional
MHTi-SMD-KIT-J-USBC-USBA-19V	2x USB-C 1x USB-A 2x 19Vdc (2.5mm)	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-J MHTi-NODE-90-CV-USBC MHTi-NODE-90-CV-19V MHTi-LINAK-CHUSBC2A1-000 MHTi- JIECANG-BATT * TPPI-LEPRO-TASKLIGHT** Interconnection cables ***	Yes	*Optional	**Optional

Note: ***Multiple interconnection cables added based on the SMD-KIT version.



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LogicData Desk Type:

Ordering	Features	Components	Monitor Power	Battery	Task Light
MHTi-SMD-KIT-LD-USBC-12V	2x USB-C 2x USB-A 2x 12Vdc (2.5mm)	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-LD MHTi-SMD-DOCK_2_12V TPPi-LEPRO-TASKLIGHT** Interconnection cables***	No	No	**Optional
MHTi-SMD-KIT-LD-USBC-20V	2x USB-C 2x USB-A 2x 20Vdc (2.5mm)	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-LD MHTi-SMD-DOCK_2_20V TPPi-LEPRO-TASKLIGHT** Interconnection cables***	Yes	No	**Optional
MHTi-SMD-KIT-LD-USBC-USBA	2x USB-C 1x USB-A	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-LD MHTi-NODE-90-CV-USBC MHTi-LINAK-CHUSBC2A1-000 TPPi-LEPRO-TASKLIGHT** Interconnection cables***	No	No	**Optional
MHTi-SMD-KIT-LD-USBC-USBA-19V	2x USB-C 1x USB-A 2x 19Vdc (2.5mm)	MHTi-NODE-90-CVRS485 MHTi-SMD-INT-LD MHTi-NODE-90-CV-USBC MHTi-NODE-90-CV-19V MHTi-LINAK-CHUSBC2A1- 000 TPPi-LEPRO-TASKLIGHT** Interconnection cables***	Yes	No	**Optional

Note: ***Multiple interconnection cables added based on the SMD-KIT version.