INSPEXTOR

PRODUCT SERIES SPEC SHEET

MHTi-SMD-INT

MHT Technologies is committed to providing innovation in the IoT sector. In our continued effort to push the envelope we have worked with industry partners to provide a smart desk interface that utilizes PoE power supplied from our MHTi-NODE-90. The Smart Desk Interface can provide real-time metrics and control robust workspace equipment.

FEATURES

- Real-time Desk Occupancy Data
- Linak and Jiecang Controller/Backup Battery Support*
- Temperature, Relative Humidity, and Barometric Pressure Data
- Programmable I2C port for custom sensor expansion
- RS485 Serial Communication to relay data from Linak and Jiecang Controllers

**See Product Use Case Page 3*

GENERAL INFORMATION

Warranty	5 Year Limited Warranty (Covers Standard Components)
Finish	Anodized
Construction	Extruded Alumnium
Certifications	

BATTERY PORT CHARACTERISTICS

Output Termination Style	BAT1: 4 pin Mini-fit Jr BAT2: 2 Pin Mini-fit Jr
Output Voltage	12 - 36 VDC
Battery Detection	"Battery Aware" firmware allows the MHTi-SMD-INT to provide appropriate power to desk controllers

ENVIRONMENTAL REQUIREMENTS

Operating Temperature	0°C to 50°C
Operating Humidity	10% to 80% RH non-condensing
Storage Temperature	0°C to 85°C
Storage Humidity	5% to 95% RH non-condensing

NODE DIMENSIONAL DATA

Node Dimensions	3.3" (83mm) L x 2.5" (64.2mm) W x 0.9" (24mm) H
Mounting	4 Mounting holes
Origin	Made in USA

MHT Technologies

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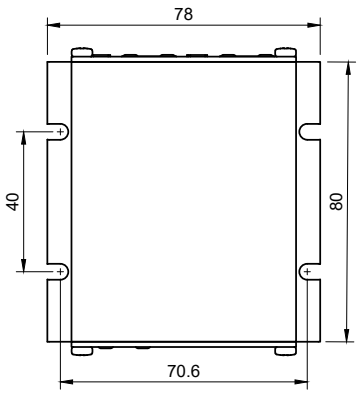
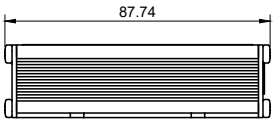
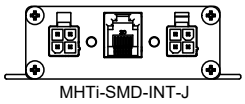
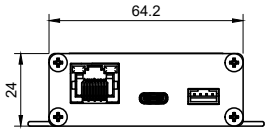
MHT Technologies, reserves the right to make any design changes for continuous improvement which will not affect the overall appearance or performance.

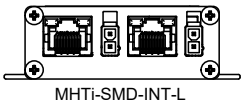
PRODUCT DIMENSION











F2 PORT CHARACTERISTICS

Termination Type	RJ12 Unshielded
Communication Type	RS-485 Proprietary

A1/A2 PORT CHARACTERISTICS

Termination Type	RJ45 Unshielded
Communication Type	RS-485 Proprietary
Indicator Lights	Orange: Indicates power allocated Green: Indicates data activity is present

OCCUPANCY SENSOR CHARACTERISTICS

Vibration Sensor	integral vibration sensor is allow the Smart Desk Inteface to determine the desks occupany level but looking for excess vibration.
Presence Sensor	integral optical sensor is utilized in conjunction with vibration sensor to determine the state of occupancy of the desk.

ENVIRONMENTAL SENSOR CHARACTERISTICS

Temperature Sensor	*Temperature Range*	0° to 80° C
	Absolute Accuracy	0° to 65° C ± 1.0°
	Output Resolution	0.01° C
	Output Frequency	5 min intervals
Relative Humidity	*Relative Humidity Range*	0 to 100% RH
	Absolute Accuracy	± 3% @ 25° C
	Output Resolution	.008% RH
	Output Frequency	5 min intervals
Barometeric Pressure	*Pressure Range*	300 to 1100 hPa
	Absolute Accuracy	300 to 1100 hPa ±01.0 hPa
	Output Resolution	.18 Pa
	Output Frequency	5 min intervals

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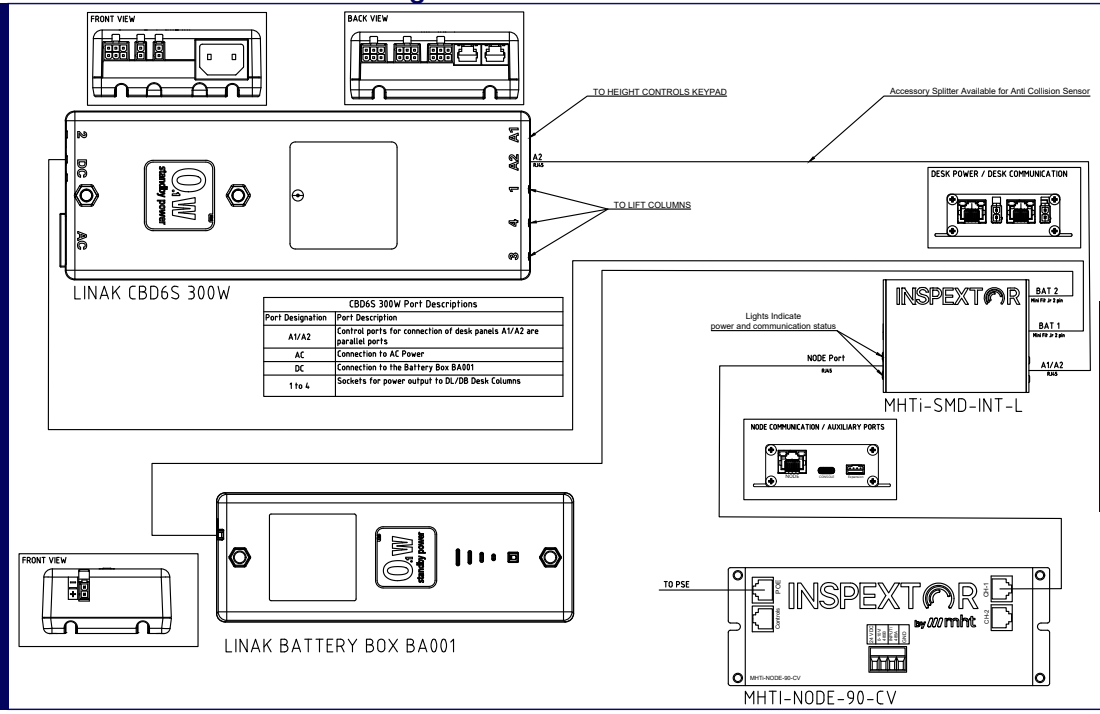
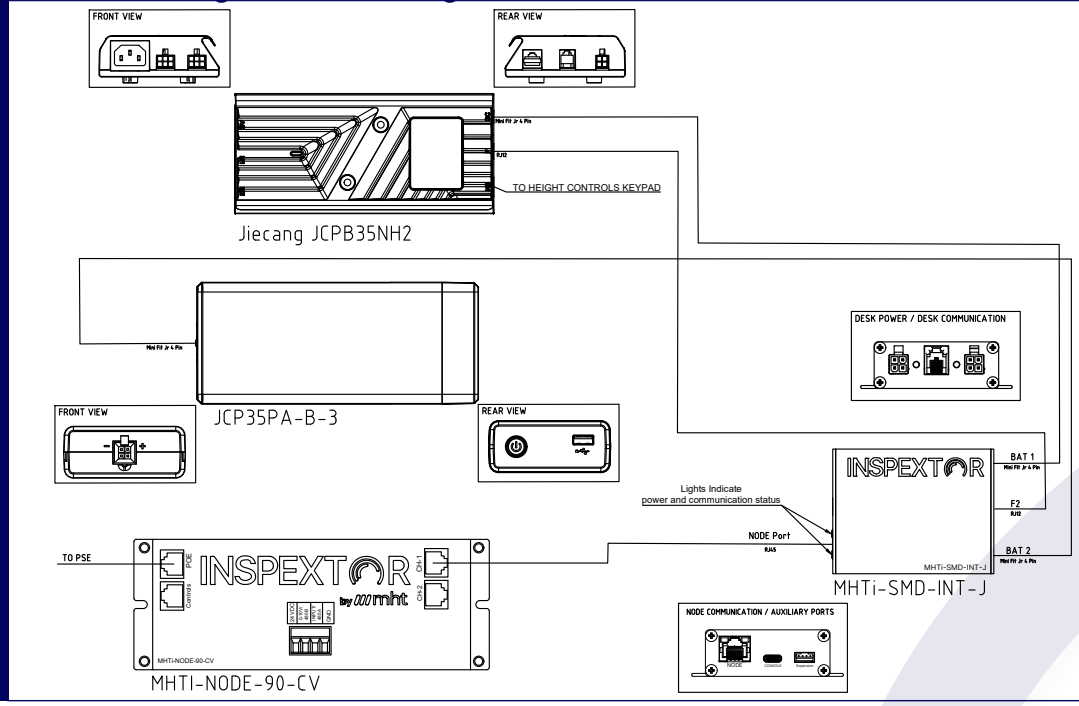
USE CASE: Linak Smart Desk Integration



Integration Notes:

- MHTi-NODE-90 must be a variant with a Constant Voltage (CV) Driver
- Inspextor Software allows for monitoring of desk status.

USE CASE: Jiecang Smart Desk Integration



Integration Notes:

- MHTi-NODE-90 must be a variant with a Constant Voltage (CV) Driver
- Inspextor Software allows for monitoring of desk status.

ORDERING INFO: Sample Code - MHTi-SMD-INT-L

Series	Type	Description
MHTi-SMD-INT	J	Jiecang Version
	L	Linak Version

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