INSPEXTOR

PRODUCT SERIES SPEC SHEET

MHTi-SUPERNODE

FEATURES

- Fixture Agnostic up to 72 Watts - Internal or Optional Remote Mount
- Engineered to Respond to the MHTi - Peripheral Communication Network
- RS485 Protocol
- 0-10V External Driver Control
- 0-24V analog input
- Automatic Network Discovery
- Ultra High Electrical Conversion Efficiency of 90%
- Patented Single pair MHTi communication protocol for ***MHTi-WS series*** device support.
- Supports Optional MHTi Battery Backup
- Features a Dimming Range of 1% to 100%
- Dual channel color tuning fixture support
- Up to 8 programmable Inputs

GENERAL INFORMATION

Warranty	5 Year Limited Warranty (Covers Standard Components)
Finish	White ABS
Construction	ABS/Aluminium
Certifications	Intertek

NODE POWER INPUT CHARACTERISTICS

Input Voltage	PoE Input: 40-60VDC DC IN: 24VDC to 60VDC
Peak Operating Power	80W max
Nominal Standby Power	1.35W
PoE Input Connection	Unshielded female RJ45 jack for CAT5e/6/6A cable to PoE PSE device.
Device Type	Class 2 electrical device

OUTPUT CHANNEL SPECIFICATIONS

Output Channels	CH1 - CH8 (Individually Programmable)	
Driver Design	Programmable Constant Current (CC) or Constant Voltage (CV)	
Output Voltage Range	• 34V to 44V in Constant Current Mode • 12V to 48V in Constant Voltage Mode	
Output Current	• 2A in Constant Current Mode, single channel • 5A in 12V Constant Voltage Mode, single channel	
Rated Output Power	• 72 Watts in Constant Current Mode (2 channels or more) and 60W per single channel . • 72 Watts in 48V and 36V Constant Voltage Mode (2 channels or more) and 72W per single channel • 67 Watts in 24V Constant Voltage Mode combine (2 channels or more) and 67W per single channel • 57 Watts in 12V Constant Voltage Mode combine (2 channels or more) and 57W per single channel.	@ 50° C Ambient Temperatures
Protection	Individual LED driver channels have current limit and short circuit protection	
Connections	2 TERM BLOCKS HDR 8POS VERT 5MM (4 channels each)	

MHT Technologies

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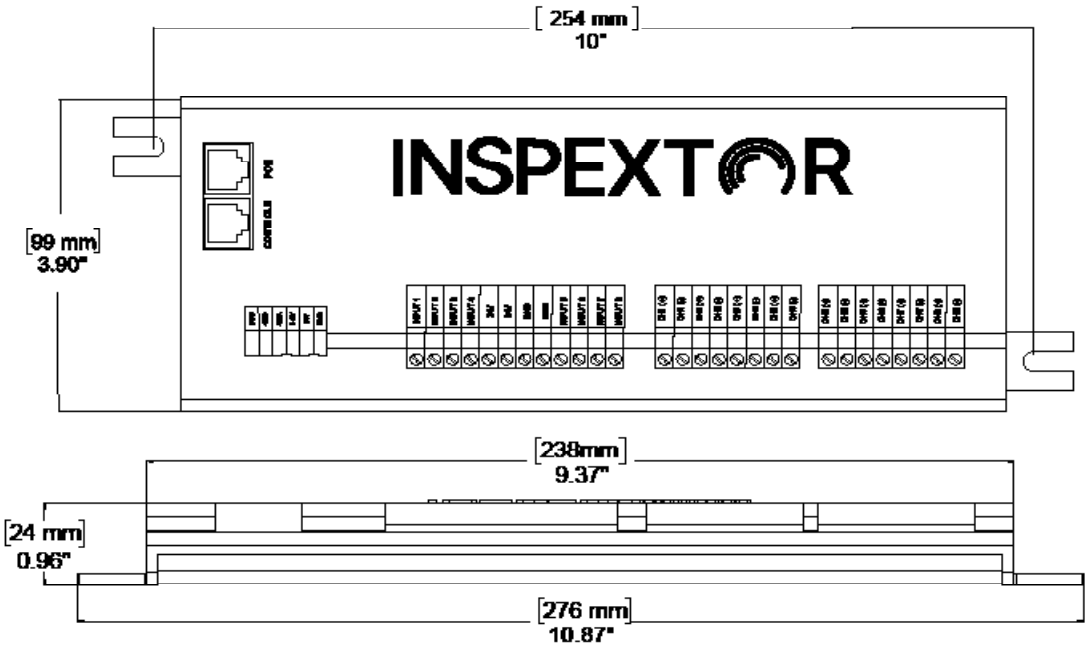

OUTPUT PROGRAMMING TABLE

Model Number	Mode	Output Voltage	Maximum Current	Output Power
MHTI-SUPERNODE*	CC and CV Modes Programmable	CV: 12V to 48V CC: 34V to 44V	CV: 3.3A to 1.5A CC: 2A	CV: 40W to 70W CC: 72W

Note: *If any single channel in CH1 thru 4 or 5-8 is programmed as CV all channels in the group must be CV

INPUT SPECIFICATIONS

Power Supply	24VDC @ 1 Amps for powering external sensors
Termination Style	Screw Terminal/Plug to Board
Termination Summary	• 8 Inputs • 2 GND • 2 24VDC
Input Programming	8 Individual programmable input allows for localized output controls, or cluster oriented scene controls utilizing the inspextor software.

OUTPUT CHANNEL POWER TABLE *@ 50° C ambient*

MODE	CH1-8(W)	Single Channel (W)
CC	80	80
CV (48V)	75	75
CV (36V)	72	72
CV (24V)	65	65
CV (12V)	60	60

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SPRING CAGE CONNECTOR SPECIFICATIONS

24VDC	24VDC @ 1 Amps to power external devices such as the MHTi-EM-EXT to keep 0-10V line voltage fixture ON connected to an EM line voltage when there a PoE power lost. The power consumed from a device connected from 24VDC to GND is part of the output channels power budget.
0-10V	0-10V dimming control for line voltage fixtures
Input	Analog Input reads analog events from sensors or trigger devices, enabling the Node to take specific actions based on the received information.
485A and B	RS-485, half-duplex, 230.4k baud, 120 ohms impedance. Allows communication with compatible devices using this protocol.
GND	Circuit ground connection

ENVIRONMENTAL REQUIREMENTS

Operating Temperature	0°C to 50°C
Operating Environmental	For dry or damp locations
Operating Humidity	10% to 80% RH non-condensing
Storage Temperature	-20°C to 85°C
Storage Humidity	5% to 95% RH non-condensing

DIMENSIONAL SPECIFICATIONS

Dimension Overall	10.87"x3.895"x0.96"
Mounting Dimensions	10" offset mounting tabs
Origin	Assembled in the USA

ORDERING INFO: Sample Code - MHTi-SUPERNODE

Series
MHTi-SUPERNODE

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