



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Three-stage DIN Rail Surge Protector

HESP4DR

B+B SMARTWORX

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PRODUCT FEATURES

- Three stages of protection on every data line
 - 1) Gas discharge tube
 - 2) Series resistor
 - 3) Transient voltage suppressor
- Protected signal ground connection
- Rugged terminal block connections
- Dedicated chassis ground lug
- Wide operating Temperature
- NEMA TS2

Model HESP4DR protects against lightning strikes, power surges, and other types of voltage disturbances with three stages of protection for each line: a gas discharge tube followed by a series resistor and finally a Transient Voltage Suppressor (TVS). Five RS-422/485 signals on terminal blocks are supported with a clamping voltage of 6.8 Volts.

The surge protector is housed in a rugged DIN rail mount case with a protected signal ground connection and dedicated chassis ground lug. In order to work properly, it is important to have a good connection between the #10 grounding screw and a solid earth ground.

ORDERING INFORMATION

MODEL NUMBER	INTERFACE	LINES PROTECTED	MOUNTING
HESP4DR	RS-422/485	(5) RS-422/485	DIN Rail Mount

ACCESSORIES

CU15B - Copper Grounding Strap



IN THE FIELD

Parking Lot Security

Industry: Transportation – Intelligent Parking
Product: High Energy Surge Protector

Learn more about surge suppression & isolation

www.advantech-bb.com/TechLibrary

- "Isolation: Your Best Investment for Reliability"
- "Dataline Isolation Theory"
- "Dataline Surge Protection"

All product specifications are subject to change without notice.
HESP4DR_1317ds

Three-stage DIN Rail Surge Protector

HESP4DR



SPECIFICATIONS

SERIAL TECHNOLOGY	
Connectors, line	5-position terminal blocks
Connectors, equipment	5-position terminal blocks
SURGE SUPPRESSION	
Clamping Voltage - stage 1	72 VDC, minimum 108 VDC, maximum
Series Resistance - stage 2	2.7 Ohms
Clamping Voltage - stage 3	6.45 VDC, minimum 7.14 VDC, maximum
Clamping Time	Less than 5×10^{-9} seconds
MECHANICAL	
Dimensions	3.55 x 7.88 x 10.53 cm (1.4 x 3.1 x 4.2 in)
Installation	DIN rail mount
Weight	0.114 kg (4.02 oz)
MTBF	862813 hours
MTBF Calc. Method	MIL 217F, Parts Count Reliability Prediction Method

ENVIRONMENTAL	
Operating Temperature	-40 to 80 °C (-40 to 176 °F)
Storage Temperature	-40 to 85 °C (-40 to 185 °F)
Operating Humidity	0 to 95% Non-condensing
APPROVALS / CERTIFICATIONS - HESP4DR	
CE, NEMA TS2	
2011/65/EU - Reduction of Hazardous Substance Directive	
2012/19/EU - Waste Electrical and Electronic Equipment (WEEE)	

MECHANICAL DIAGRAM

