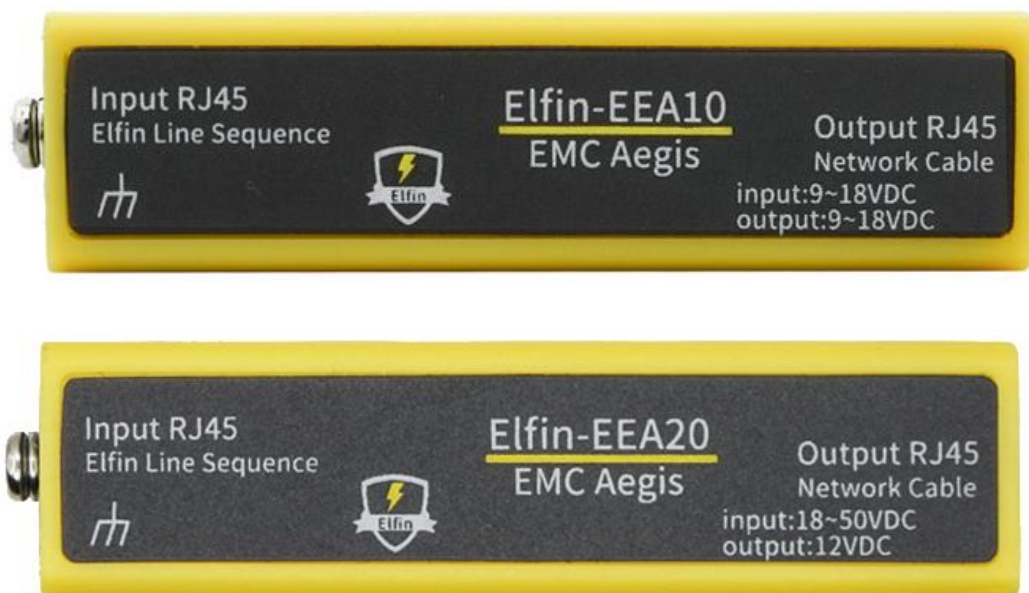


Elfin-EEA

EMC Aegis Shield

User Manual

V 1.0



Overview of Characteristic

- ◇ EMC Protect for Elfin Product
- ◇ Power, RS232, RS485, RJ45 ESD Protect
- ◇ Surge Protect
- ◇ Lightning Protect
- ◇ Input Power Protect, Power Reverse Protect
 - EEA10: Input Voltage $\geq 18\text{VDC}$, Protect work, close Power Output
 - EEA20: Input Voltage $\geq 50\text{VDC}$, Protect work, Close Power Output

✧ Wide Power Input and Output

- EEA10: 9~18VDC Input, 9~18VDC Output

- EEA20: 18~50VDC Input, 12VDC Output

✧ Size: 68.5 x 35 x 17.8mm

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HISTORY

V 1.0 06-13-2019. First Version

1. PRODUCT OVERVIEW

1.1. General Description

The Elfin-EEA provide EMC protect for Elfin series product(EG10, EG11, EE10, EE11, EG40, EG41, EW10, EW11)

It use Ethernet cable connect to Elfin products, the connection is as following.



Figure 1. Elfin-EG40 Appearance

1.2. Device Parameters

Table1. Elfin-EEA Technical Specifications

Item	Parameters
Power Input Protect	EEA10: >18VDC protect, protect the connected device EEA20 >50VDC protect, protect the connected device
ESD	Contact ESD: $\pm 8\text{KV}$ Air ESD: $\pm 15\text{KV}$
Surge	$\pm 8\text{KV}$, 8/20 μs
Normal Input Voltage	EEA10: 9~18VDC EEA20: 18~50VDC
Size	68.5mm x 35mm x 17.8mm
Operating Temp.	-40 ~ 85°C
Storage Temp.	-45 ~ 105°C, 5 ~ 95% RH (no condensation)

2. HARDWARE INTRODUCTION

2.1. APPEARANCE



Figure 2. Elfin-EEA10 Appearance



Figure 3. Elfin-EEA20 Appearance

2.2. Elfin-EEA Input Interface

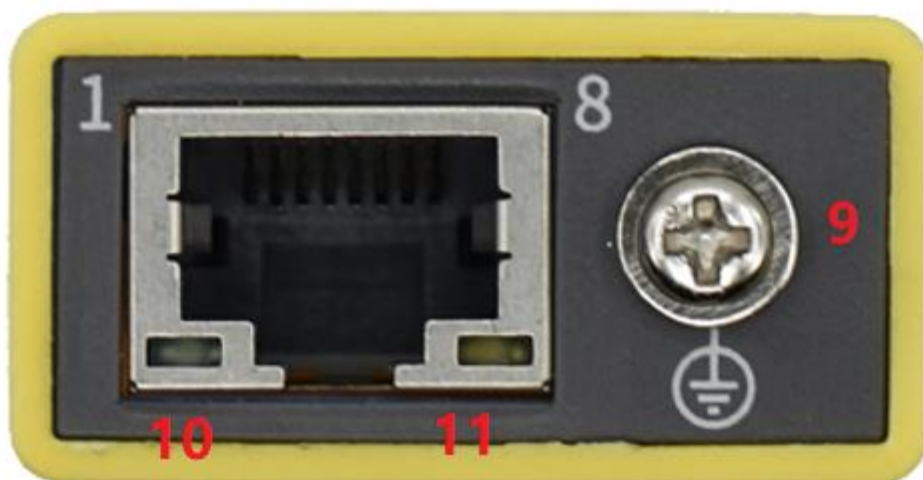


Figure 4. Elfin-EEA Input Interface

Table2. Elfin-EEA Interface Definition

Pin	Description	Notes
1~8	Input Signal	The same for connected elfin product If connect to EG41, then PIN1~PIN8 is right for EG41
9	Earth	Connect to earth GND
10	Green Led	EEA10: Off EEA20: On
11	Orange Led	Power input protect EEA10: >18VDC ON, <18VDC OFF EEA20: >50VDC ON, <50VDC OFF

2.3. Elfin-EEA Output Interface

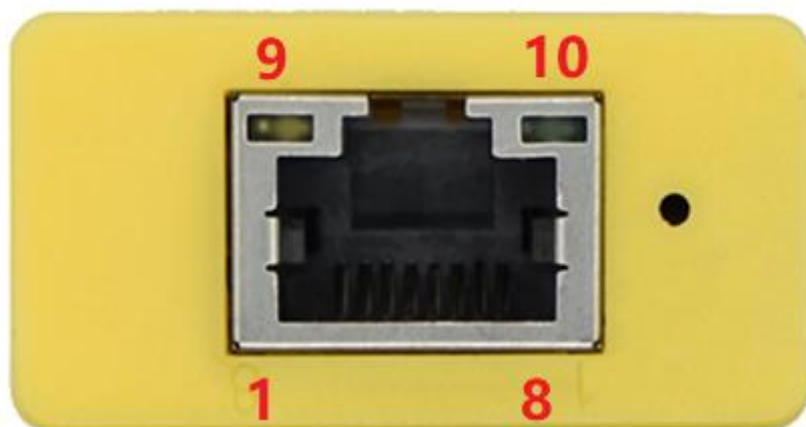


Figure 5. Elfin-EEA Output Interface

Table3. Elfin-EEA Output Definition

Pin	Description	Notes
1~8	Output Signal	Use Ethernet cable connect to device
9	Orange Led	Power output indicator ON: Output Enable OFF: Output Disable
10	Green Led	Reserved

2.4. Mechanical Size

The dimensions of Elfin-EEA are defined as following pictures(mm):



Figure 6. Elfin-EEA Mechanical Size

APPENDIX A: CONTACT INFORMATION

Address: Room1002 , #1Building, No.3000 Longdong Avenue, Pudong District, Shanghai, China 201202

Website: www.iotworkshop.com or www.hi-flying.com

Contact:

Sales: sales@iotworkshop.com

Support: support@iotworkshop.com

Service: service@iotworkshop.com

Business: business@iotworkshop.com

For more information about us, please visit our website: www.iotworkshop.com

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