

**MAXIMUM CHARACTERISTICS**

**Application:**  
 The Transtector ALPU GigE Series Broadband Communications Protectors are ideal for protecting high speed 10/1000BT communications networks. The protection circuits utilize silicon avalanche diode technology. The protector has an outdoor qualified NEMA 3R type enclosure with easy mounting flanges. The ALPU-1000BT features RJ45 protection circuits for gigabit Ethernet data (pins 1,2 & 3,6 & 4,5 & 7,8). The unit is intended to be wall mounted and an optional bracket is available to allow a wide range of pole mount applications. A dedicated ground stud is provided inside the unit that must be bonded to the nearest grounding system (or Master Ground bar) for proper surge protection functionality. The system wiring is installed with RJ-45 type connectors that can feed directly into the chassis without having to cut or splice or route through awkward strain relief holes. The enclosure includes a built in cable retention feature for improved cable management. The metal enclosure has screw down clamps for maximum cable retention. In the unlikely event of surge protection self sacrifice, the individual protection cards will fail short to disrupt communication. The protection cards can be replaced for ease of service.

**Electrical Performance:**  
 Connector Style: RJ45 Cat5e shielded 100ohm  
 Data Rate: 1000Mb/s  
 Nominal Operating Voltage: 3.3Vdc  
 Maximum Continuous Operating Voltage: 6Vdc  
 Protected Pins: (1,2) (3,6) (4,5) and (7,8) pass through  
 Impedance: 85 to 115ohms  
 Frame Transmission: 100% Transmission @ 1000Mb/s  
 Surge Suppression: < 25Vpeak @ 100A 10/1000ms  
 Nominal Surge Current: 100A @10/1000µs  
 Response Time: <5ns  
 Capacitance: <15pF

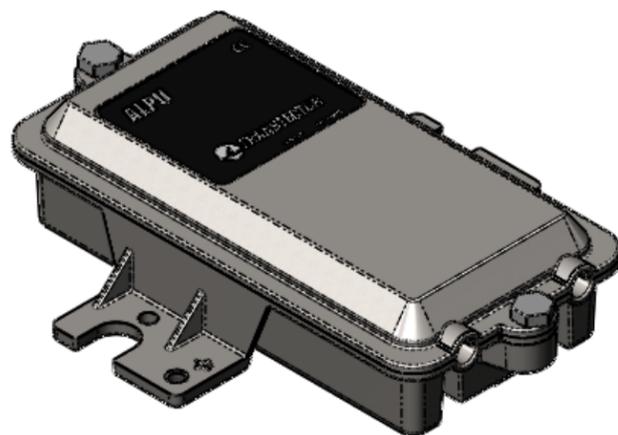
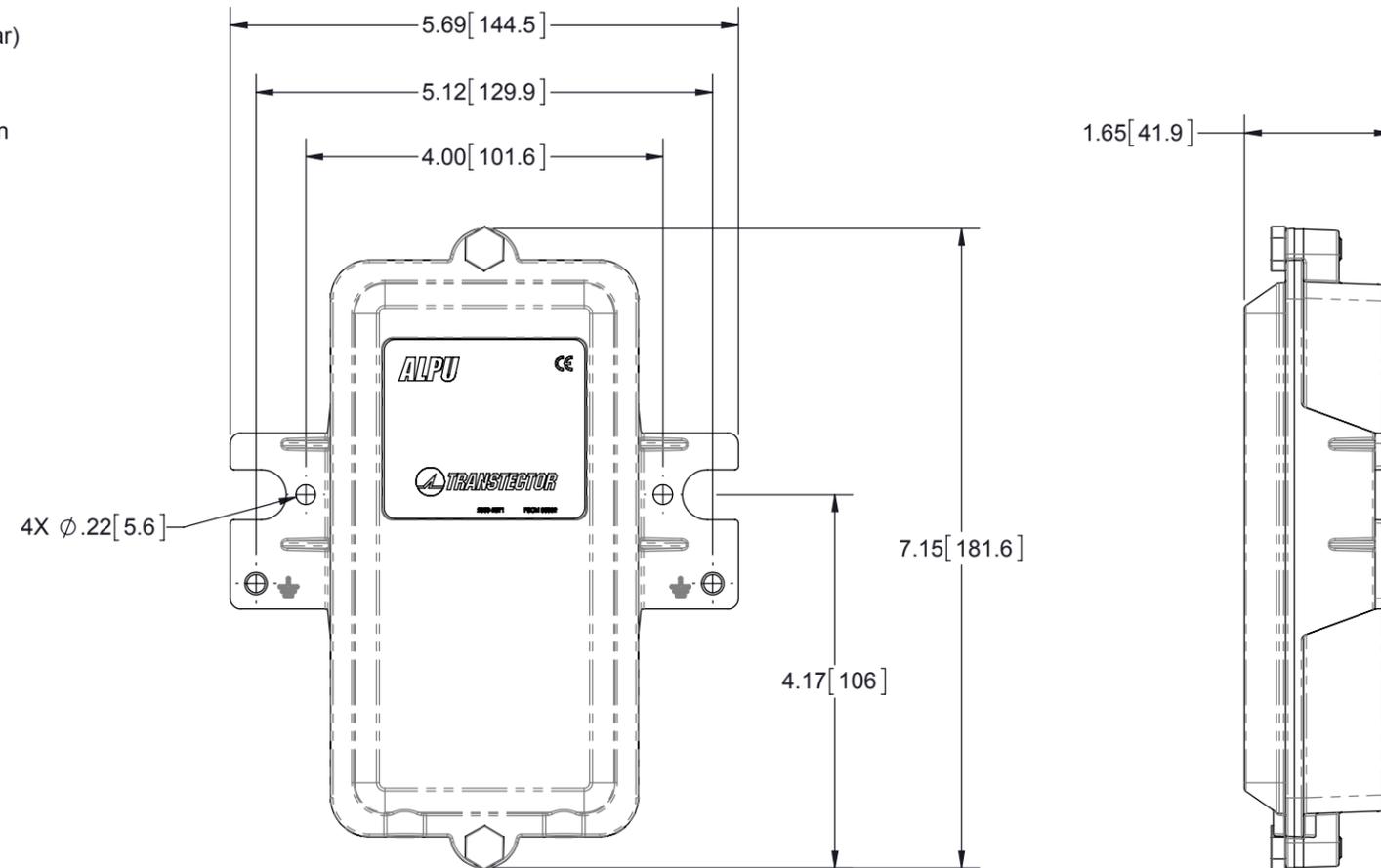
**Environmental:**  
 Operating/Storage Temperature: -40°C to +75°C  
 Relative Humidity: 95% (non-condensing)

**Mechanical:**  
 Weight: 0.8lbs (.36kg)  
 Product Material: Die-Cast Aluminum

**Applicable Industry Standards:**  
 Bonding and Grounding: NEC 800.100 and 830.100  
 Surge Suppression: GR-1089-2006  
 10/100BT (Ethernet), 1000BT (Gigabit Ethernet) Communication Protocol: IEEE 802.3  
 Power over Ethernet Protocol: IEEE 802.3af

**Approvals:**  
 CE Mark Compliant and ROHS Compliant  
 IEC/ANSI/UL/CSA 60950 Compliant  
 Hazardous Location Certifications: ETL Class I Div 2, Class I Zone 2, ATEX, IECEx (See Figure 1)

REVISIONS				
REV.	DESCRIPTION	ECN	DATE	APPROVED
E	REFER TO ECN	13360	08/13/15	KAD



<b>ALPU GbE</b>	<b>1101-935</b>
<b>Ratings: 6 Vdc, 4 A (1 A per line), IP54</b>	
<b>Class I Division 2 Groups A,B,C,D T8</b>	
<b>Class I Zone 2 AEx nA IIC T8 Gc</b>	
<b>Class I Zone 2 Ex nA IIC T8 Gc</b>	
<b>CE</b>	<b>II 3 G Ex nA IIC T8 Gc</b>
<b>-40°C ≤ Tamb ≤ +70°C</b>	<b>ITS15ATEX48178X</b>
	<b>IECEX ETL 15.0002X</b>

Figure 1: Hazardous Locations

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS  TOLERANCES: FRACTIONS=± 1/32 .XX=± .01 ANGLES=± 1° .XXX=± .005	DRAWN	HMB	DATE	2/14/13
	ENG APPD	CAP		4/2/13
	PRODUCT MGR	MLH		6/24/13
	MARKETING APPD	LJ		6/27/13
MATERIAL NOTED	PROJECT NO.			
THIRD-ANGLE PROJECTION	NOTICE: THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSTECTOR SYSTEMS. ALL RIGHTS RESERVED.			
<b>TRANSTECTOR</b>				
TITLE <b>ALPU-1000BT-CS-M</b>				
CUSTOMER SPECIFICATION				
SIZE	CAGE	PART NUMBER	REV	
<b>B</b>	<b>30992</b>	<b>1101-935</b>	<b>E</b>	
SCALE	PROD CAT	DOCUMENT NAME	SHEET	OF
<b>1:2</b>	<b>DST</b>	<b>1101-935-C</b>	<b>1</b>	<b>1</b>