

# tres900

Transponder and Reader Engineered Systems, Inc.

**Value Engineered for  
the Supply Chain, WIP,  
Asset Monitoring and  
Vehicle ID Industries**

**902 to 928 MHz Frequency Hopping  
Long Read Ranges - 18 to 25 ft.  
Output: Wiegand, Serial, or TCP/IP  
Read/Write Any EPC Gen2 tag**

The tres900 reader is value engineered to meet your most demanding applications for asset and personnel monitoring, vehicle ID and supply chain management. Integrated antenna design means simple installation and functionality in a single, low profile design. tres900 is environmentally sealed allowing for indoor and outdoor installations with a UV resistant housing. Upgradeable firmware allows for protocol expansion and feature upgrades. High gain circular polarized antenna for maximized read ranges. DSP (digital signal processing) for multi tag anti-collision capabilities. Able to accomplish multi reader synchronization for interference reduction.



Transponder and Reader Engineered Systems, Inc  
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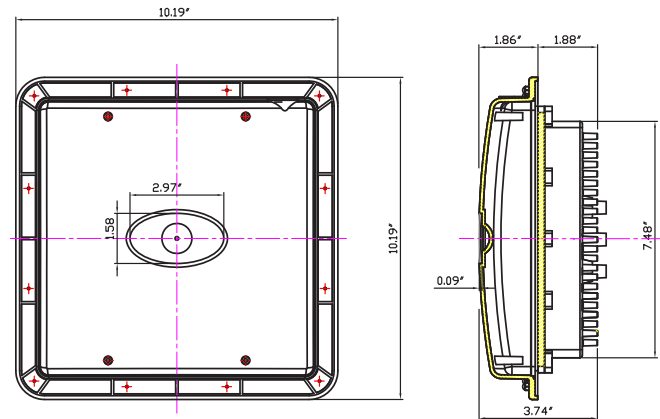
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<b>tres900 Passive UHF Reader</b>	Specifications
<b>Operating Frequency</b>	902MHz ~928MHz (860-960 MHz built-in)
<b>RF Protocol</b>	ISO18000-6B, EPC Class 1, EPC Class 1 GEN 2
<b>Operating Method</b>	FHSS or fixed frequency (set by software)
<b>Antenna Ports</b>	Internal 7dBi circular polarized antenna 7:10 H/V
<b>Max RF Power</b>	30 dBm (1 Watt)
<b>RF Power Range</b>	20~30 dBm, Software Adjustable
<b>Tag ID Modes</b>	Timed Mode - automatically reads at fixed time Trigger Mode - external trigger control to read Master/slave Mode - Under software control
<b>Identity Tag Time</b>	<8ms Identity single tag
<b>Reading/Writing Tag Time</b>	Reads every 8 bytes in less than 5ms Writes every 4 bytes in less than 25ms
<b>Reading/Writing Range</b>	18 to 25 feet
<b>Communication Interface</b>	RS-232, Wiegand, TCP/IP
<b>Input</b>	One way trigger input for master/slave configuration
<b>Power Supply</b>	8 to 16 VDC 2A included
<b>Power Consumption</b>	≤5W
<b>Size</b>	(10.19 X 10.19 X 3.74 inches) 260mmx260mmx90mm
<b>Work Temperature</b>	-20 C° to + 70 C°
<b>Work Status Indication</b>	Audible Buzzer
<b>Certifications:</b>	FCC Part 15, CE Mark

Distributed By



Mounting Bracket (pictured below)  
and Reader Power Supply included  
at no additional charge



This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:  
1) this device may not cause harmful interference, and; 2) this device must accept interference received,  
including interference that may cause unintended operation. FCC ID: A379502



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