

# DATA SHEET

## IMPERA TANGO CONTROLLER



The Impera Tango is a controller for Biamp Apprimo touch panels, enabling easy control of all room functions. The Tango can host up to 5 touch panel interfaces. It is equipped with three bidirectional RS-232/IR ports for sending commands with feedback functionality; 2 unidirectional RS-232/IR ports for sending commands to AV devices using serial or infrared communication; 8 GPIO connections for control of relays, switches and sensors; LAN control for 10 third-party and 8 Biamp devices; and 4 assignable relays for control of mechanical devices. The Impera Tango is a versatile AV control system for presentation spaces, learning environments, conference rooms, and more.

### FEATURES

- Host up to 5 Apprimo touch panels
- 3 bidirectional RS-232/IR ports
- 2 unidirectional RS-232/IR ports
- 4 built-in assignable relays
- 8 GPIO for control of relays, switches, and sensors
- PoE powered (IEEE 802.3at Class 3, 15W)
- Configured in Project Designer software
- Covered by a five-year warranty

### ARCHITECTS & ENGINEERS SPECIFICATIONS

The Impera Tango controller utilizes an Ethernet network via an RJ-45 connector for software configuration and control. The controller includes 3 bidirectional RS-232/IR port for controlling third party devices with feedback functionality; 2 unidirectional RS-232/IR ports for controlling third party devices; 8 general purpose input/output (GPIO) connections for sending or receiving logic signals; LAN control for 10 third-party and 8 Biamp devices; and 4 assignable relays. The controller connects to and operates up to 5 touch panel interfaces. The controller's connections and operations are externally configurable. The controller is powered by PoE (IEEE 802.3at Class 3, 15W), and includes a PoE OUT connector to power an external device such as a touch panel. The Impera Tango is CE marked, UL listed, and compliant with the RoHS directive. The Impera Tango is covered by a five-year warranty.

## IMPERA TANGO SPECIFICATIONS

<b>Network Connection:</b>	RJ-45 with Ethernet (CAT5e or better)	<b>Power:</b>	
<b>RS-232 / IR</b>		<b>PoE Input</b>	
<b>Number of Ports:</b>	3 (bidirectional) 2 (unidirectional)	<b>Compliance:</b>	IEEE 802.3af Class 3, 15 W
<b>Connector:</b>	3-pin, 0.3-inch Euroblock	<b>Power input:</b>	
<b>Baud Rate:</b>	1200 – 115200 bit/sec	<b>PoE Output</b>	
<b>Data Bits:</b>	7, 8	<b>Compliance:</b>	IEEE 802.3af
<b>Parity:</b>	Even, Odd, None	<b>Max power output:</b>	12 W @ 15 W input
<b>Stop Bits:</b>	1, 2	<b>Overall Dimensions</b>	
<b>IR Frequency Range:</b>	400 Hz to 500 kHz	<b>Height:</b>	1.4 inches (35 mm)
<b>GPIO</b>		<b>Width:</b>	8.7 inches (220 mm)
<b>Number of Ports:</b>	8	<b>Depth:</b>	2.8 inches (70 mm)
<b>Connector:</b>	5-pin, 0.3-inch Euroblock	<b>Weight:</b>	1.1 lbs (0.5 kg)
<b>Type:</b>	Open drain	<b>Environmental</b>	
<b>Input Trigger Low:</b>	< 1VDC	<b>Ambient Operating</b>	
<b>Input Trigger High:</b>	> 4VDC	<b>Temperature Range:</b>	32 - 86° F (0 – 30° C)
<b>Isolated Output:</b>	No	<b>Humidity:</b>	10-90% relative humidity (non-condensing)
<b>Max Voltage:</b>	24VDC	<b>Altitude:</b>	0-6,600 ft (0-2000m) MSL
<b>Max Current:</b>	0.5A	<b>Compliance:</b>	
<b>Ethernet</b>			FCC Part 15B (USA)
<b>Port Speed:</b>	10/100 Mbps		UL listed (USA and Canada)
<b>Autosense:</b>	Yes		CE Marked (Europe)
<b>Number of third-party devices supported:</b>	10		RoHS Directive (Europe)
<b>Number of Biamp devices supported:</b>	8		
<b>Relays</b>			
<b>Quantity:</b>	4		
<b>Connector:</b>	2-pin, 0.3-inch Euroblock		
<b>Power capacity:</b>	30VDC / 0.5A		

## IMPERA TANGO REAR PANEL



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