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

Network Connection:	RJ-45 with Ethernet (CAT5e or better)
RS-232 / IR	
Number of Ports:	3 (bidirectional)
	2 (unidirectional)
Connector:	3-pin, 0.3-inch Euroblock
Baud Rate:	1200 – 115200 bit/sec
Data Bits:	7, 8
Parity:	Even, Odd, None
Stop Bits:	1, 2
IR Frequency Range:	400 Hz to 500 kHz
GPIO	
Number of Ports:	8
Connector:	5-pin, 0.3-inch Euroblock
Type:	Open drain
Input Trigger Low:	< 1VDC
Input Trigger High:	> 4VDC
Isolated Output:	No
Max Voltage:	24VDC
Max Current:	0.5A
Ethernet	
Port Speed:	10/100 Mbps
Autosense:	Yes
Number of third-party devices supported:	10
Numer of Biamp devices supported:	8
Relays	
Quantity:	4
Connector:	2-pin, 0.3-inch Euroblock
Power capacity:	30VDC / 0.5A

Power:	
PoE Input	
Compliance:	IEEE 802.3af
Power input:	Class 3, 15 W
PoE Output	
Compliance:	IEEE 802.3af
Max power output:	12 W @ 15 W input
Overall Dimensions	
Height:	1.4 inches (35 mm)
Width:	8.7 inches (220 mm)
Depth:	2.8 inches (70 mm)
Weight:	1.1 lbs (0.5 kg)
Environmental	
Ambient Operating Temperature Range:	32 - 86° F (0 – 30° C)
Humidity:	10-90% relative humidity (non-condensing)
Altitude:	0-6,600 ft (0-2000m) MSL
Compliance:	
	FCC Part 15B (USA)
	UL listed (USA and Canada)
	CE Marked (Europe)
	RoHS Directive (Europe)

IMPERA TANGO REAR PANEL

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