# DATA SHEET
# IMPERA ALFA II
# CONTROLLER



The Impera Alfa II serves as a controller for Biamp touch panels, providing easy control of all room functions. The Alfa II is equipped with three bi-directional RS-232 interfaces for sending commands to AV devices with feedback functionality. It is additionally equipped with 2 uni-directional RS-232 interfaces for sending commands to AV devices using serial or infrared communication. 24 GPIO are available for control of relays, switches and sensors. With its large offering of control interfaces, Impera Alfa II is a versatile AV control system for rooms of all sizes.

## FEATURES

- Programmed via Project Designer software
- 3 bi-directional RS-232 ports or 6 IR ports
- 2 uni-directional RS-232 ports or 4 IR ports
- 4 built-in assignable relays
- 24 GPIO for control of relays, switches, and sensors

- Supports automatic timer functions
- Email notifications for lamp/filter hours and warnings
- Built-in web server
- Covered by Biamp Systems' five-year warranty

## ARCHITECTS & ENGINEERS SPECIFICATIONS

The controller shall utilize an Ethernet network via an RJ-45 connector for software configuration and control. The controller shall include 3 bi-directional RS-232 connections for control data transmission into or out of the controller and such operation shall be externally programmable. The controller shall include 2 uni-directional RS-232 connections for control data transmission out of the controller and such operation shall be externally programmable. The controller shall include 24 GPIO connections for the control of relays, switches, and sensors and such operation shall be externally programmable. The controller shall include 4 assignable relays and shall support automatic timer functions. The controller shall include a built-in web server. The controller shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The controller shall be the Impera Alfa II.

# IMPERA ALFA II SPECIFICATIONS

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|---|---|
| **Network Connection:** | RJ-45 with Ethernet (CAT5e or better) |
| **RS-232 / IR** | |
|    **Number of Ports:** | 3 (bi-directional), 2 (uni-directional) |
|    **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:** | 24 |
|    **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 |
| **Relays** | |
|    **Quantity:** | 4 |
|    **Connector:** | 3-pin, 0.3-inch Euroblock |
|    **Power capacity:** | 230VAC / 8A |

| | |
|---|---|
| **Power Consumption (100-240VAC 50/60Hz):** | < 60W |
| **Cooling:** | Convection |
| **Overall Dimensions** | |
|    **Height:** | 1.7 inches (44 mm) |
|    **Width:** | 19 inches (483 mm) |
|    **Depth:** | 5.6 inches (141 mm) |
|    **Weight:** | 4.2 lbs (1.9 kg) |
| **Environmental** | |
|    **Ambient Operating** | |
|    **Temperature Range:** | 32 - 104° F (0 – 40° 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 ALFA II REAR PANEL