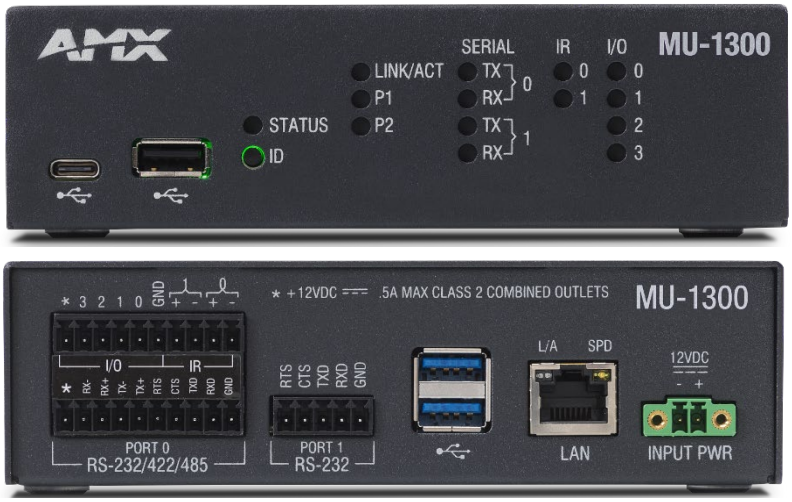
AMX MU-1300

MUSE Automation Controller - 2 Serial, 2 IR, 4 IO

AMX-CCC013



AMX MU-1300 MUSE Automation Controller

Overview

The AMX MU-1300 MUSE Automation Controller is a powerful, secure, and reliable device that provides a dedicated computing resource running HARMAN Professional's AMX MUSE automation platform. The MU-1300 can simultaneously process a virtually unlimited number of scripts written in JavaScript, Python, or Groovy and natively supports Low-Code development with Node-RED.

AMX MUSE Automation Controllers feature a modern embedded processor that's 10x faster than the processor in AMX NX Controllers, bountiful memory, and rugged, industrial grade eMMC storage. Built on HARMAN's secure Linux platform, MUSE controllers are designed to surpass the requirements of the most secure installations. Additionally, these Controllers natively support HARMAN's HControl (open-API), HiQnet (legacy HARMAN audio devices) and ICSP (legacy AMX control devices) protocols making them the ideal automation processor for any space, environment, or application - old and new.

The MU-1300 is a compact device that requires a one-third width rack space and includes 2 serial ports, 2 IR ports, and 4 I/O ports.

Features

- **Modern Embedded Processor** – Power to run a nearly unlimited number of scripts simultaneously
- **Robust eMMC storage** – Industrial grade storage provides reliability in high-access 24/7 installations
- **HControl, ICSP, and HiQNet Translation Built-In** – Native integration with new and legacy HARMAN Professional products
- **Secure Linux Platform** - Engineered to surpass the requirement of the most secure environments

Specifications

CONTROL PORTS & INDICATORS - FRONT	
STATUS Indicator	RGB LED – see manual for detailed description
ID Button	ID pushbutton used during boot to revert to factory configuration or factory firmware
USB-C Program Port	Connection to PC for virtual terminal for MU configuration
USB-A Host Port	Type-A USB host port • USB Mass Storage – for external logging • FLIRC – IR Receiver for IR hand control input
LINK / ACT Indicator	Lit when connected to a network. Blinks upon network activity.
P1 / P2 LED	Programmable LEDs available to control scripts
Serial TX / RX LED	Activity LEDs for each port in each direction. Blinks on activity.
IR TX LED	Activity LEDs for the IR/Serial port. Blinks on transmission.
I/O LED	LED indication of I/O Status. On for digital input or output active

CONTROL PORTS & INDICATORS - REAR	
Power	3.5mm Phoenix 2-pin connector with retention screws for 12vdc input
LAN Port	RJ-45 10/100 BASE-T for Ethernet communication Auto MDI/MDI-X DHCP Client
USB Host Port	2x Type-A USB host port • USB Mass Storage – for external logging • FLIRC – IR Receiver for IR hand control input
Serial Port 2	3.5mm Phoenix 5-pin connector. RS232 with hardware handshaking
20 pin double stack Phoenix connector	All remaining device control connections: • Lower 10 pins – RS-232/422/485 plus hw handshaking + power • Upper Left 6 pins – 4 Input/Output plus Ground and Power • Upper Right 4 pins – 2x IR/Serial output ports

POWER	
Power Requirements	DC input voltage (typical): 12 VDC DC current draw: 2.17A Max DC range, voltage: 9-18 VDC
Power Consumption	26 Watts Max

ENVIRONMENTAL	
Operating Temperature	32° to 122°F (0° to 50°C)
Storage Temperature	14° to 140°F (0° to 60°C)
Operating Humidity	5% to 85% RH
Heat Dissipation (On)	10.2 BTU/hr

GENERAL	
Product Dimensions (HxWxD)	1.645" x 5.8" x 5.15" (41.78mm x 147.32mm x 130.81mm)
Product Weight	1.575 lb (713g)
Shipping Weight	TBD
Included Accessories	1x 2-pin 3.5 mm mini-Phoenix PWR connector 1x 6-pin 3.5 mm mini-Phoenix I/O connector 1x 10-pin 3.5mm mini-Phoenix RS232/422/485 connector 1x 5-pin 3.5mm mini-Phoenix RS232 connector 1x CC-NIRC, IR Emitters (FG10-000-11)
Regulatory Compliance	ICES 003 CE EN 55032 AUS/NZ CISPR 32 CE EN 55035 CE EN 62368-1 IEC 62368-1 UL 62368-1 VCCI CISPR 32 RoHS / WEEE compliant

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