



The MC-IP-116 is an audio Intercom system that communicates over Internet Protocol and includes all audio amplification, control and support for up to 16 remote intercom stations. Intended for use in facilities such as correctional institution and security applications the MC-IP-116 has 20 watts of built-in power output to industry standard 25-volt speaker stations or paging speakers. The MC-IP-116 provides high quality audio communication with complete flexible control. The unit has connections for 16 remote intercom Stations, with Speakers, and Call-in Switches. A Tech Works PA-Buss connector allows the addition of our 40-Watt paging amplifier where more power is required for common areas such as Day Rooms and Exercise Yards. The Tech Works MC-IP-Series was designed to make quality audio "Plug and Play" over standard CAT6 Ethernet connectivity, using Internet Protocol to communicate both audio and control in a single connection.

For convenience, all the MC-IP-116 terminations are connectorized. Remote Stations connect via 4 pin 0.1" Spring Cage Barrier Strips Connection for Power, is a barrel connector or Screw Terminal. Paging Amplifier addition is as easy as plugging in our PA-Buss CAT6 cable.

Associated with each Station is a Status Indicator. The Station Indicators shows the Technician which relay or relays are active. When an Indicator is Off there is no activity with that station. When an Indicator is On, that Station is selected for Communication.

The MC-IP-Series audio quality is consistent and predictable due to the implementation of VOIP with our tried-and-true audio designs and industry standard interfaces.

## MC-IP-116

### Modular Communication Internet Protocol 16-Channel Audio Intercom

#### BENEFITS

- Designed Specifically for Corrections
- High Quality Audio
- Options Designed for Corrections Industry
- Works with Standard 25 Volt Speakers

#### Associated Equipment:

<b>MC-IP-HOST or</b>	Network Administrator
<b>MC-IP-SEVER</b>	Operator Desk Console
<b>MC-IP-ODC-</b>	w/Power Over Ethernet
<b>POE</b>	Touch Screen Console
<b>MC-IP-ODC-TS</b>	Paging Amplifier
<b>PA-402</b>	Power Supply
<b>PS-2437B</b>	Vandal-proof Speaker
<b>VPSS</b>	Station w/ Call Button

#### Design Information:

<b>Power Input</b>	24V DC – 3A (Power Supply Sold Separately)
<b>Color</b>	Gray Powder Coat
<b>Mounting</b>	Standard 19-in. Rack
<b>Dimensions</b>	19" W X 1.75" H X 10" D
<b>Weight</b>	5 lbs.

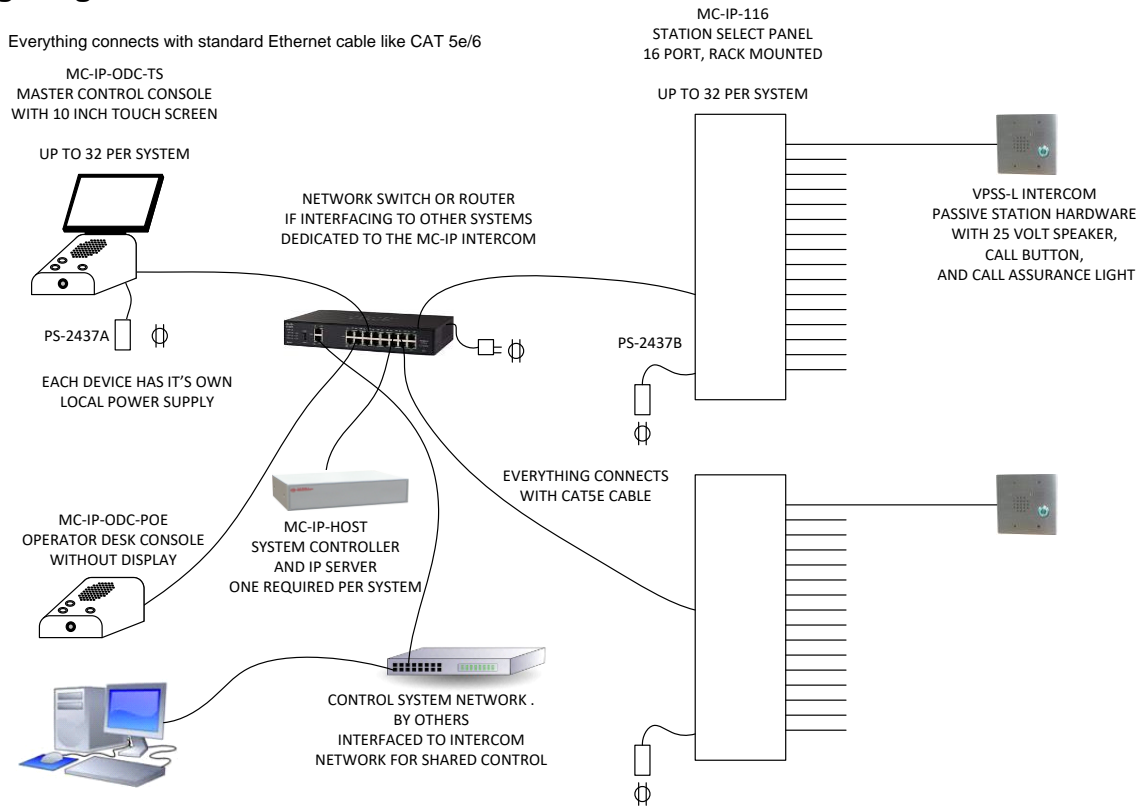


# Tech Works®

"Making Specialized Communication Easy"



## Wiring Diagram:



## Architects' & Engineers' Specifications

The station select panel and control module shall be a 19-inch rack mount metal enclosure including all electronics for Internet Protocol communication, amplification, and control of up to 16 industry standard 25-volt remote intercom speakers. 20 Watts of audio power amplifier shall be built in for paging applications. Additional audio power shall be available via a simple CAT 6 connection to Tech Works PA-Buss products when required for higher loads. Each remote speaker connection shall have a discrete call in connection. The Listen Gain control must control the remote amplifier input (microphone) gain to allow the operator to clearly hear the conversation at the distant location. Products providing only a local console speaker volume control will not be considered under this specification.

The Station Selection Control Module shall operate over Internet Protocol and include all circuitry for the clear amplification of spoken voice communication and conversation control over a single TCP/IP connection using standard CAT6 cabling. Products that do not operate over Ethernet exclusively using Internet Protocol for both audio and audio control will not be acceptable under these specifications.

The power supply shall be 24 VDC 3 Amp universal AC source type.

The 16-Channel Audio Intercom Control Module shall be Tech Works MC-IP-116

For further system set up and adjustment please see the  
System Planning Guide by scanning the QR Code.

