



## **MC-IP-SW-16**

## **MC-IP-SW-16-POE**

### **Modular Communication Internet Protocol Ethernet Network Switch**

Each MC-IP system requires an ethernet network switch to connect all of the MC-IP system components. The Tech Works MC-IP systems use a high-speed dedicated network switch to ensure that all audio communication is fast, safe, and reliable, with the highest quality audio at all times. By using a dedicated switch other networks can do whatever they need to do while allowing the Tech Works MC-IP to do what it needs to do, when it needs to be done. Multiple simultaneous streaming audio channels guarantee that all calls get to where they need to be and that the audio is always the highest possible quality.

The MC-IP-SW-16 is an Ethernet LAN switch and the MC-IP-16-POE has built in Power Over Ethernet on 8 Ports. The LAN Switch is robust and secure interconnectivity with 16 high speed LAN ports for high-performance. WAN support allows interconnectivity with other systems, Internet, and other network connections. If external control is to be used, it is highly recommended that a router be used to isolate the MC-IP network from any other network. Only the necessary ports and traffic should be allowed to pass through the router as needed. If a router is used, it should NOT be configured as a DHCP server.

Both the MC-IP-SW-16 and the MC-IP-SW-16-POE include standard 19-inch rack mount.

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 makes intercom plug and play.

#### **BENEFITS**

- Internet Protocol Connectivity
- High Speed connectivity
- Built in WAN Routing and Network Security
- 16 LAN Ports
- Dual WAN Ports
- High Reliability
- Hot Swappable Automatic Component Replication

#### **Associated Equipment:**

<b>MC-IP-ODC-POE</b>	Operator Desk Console w/Power Over Ethernet
<b>MC-IP-ODC-TS</b>	Touch Screen Console
<b>MC-IP-HOST</b>	Network Administrator
<b>MC-IP-116</b>	16-Channel Intercom Control Module
<b>MC-IP-116-L</b>	16-Channel Intercom Control Module w/Remote Station Light Output

#### **Design Information:**

<b>Power Input</b>	120VAC
<b>Color</b>	Off White Powder Coat
<b>Mounting</b>	Rack or Desk
<b>Dimensions</b>	11 x 6.7 x 1.73 inches
<b>Weight</b>	2.7 lbs.

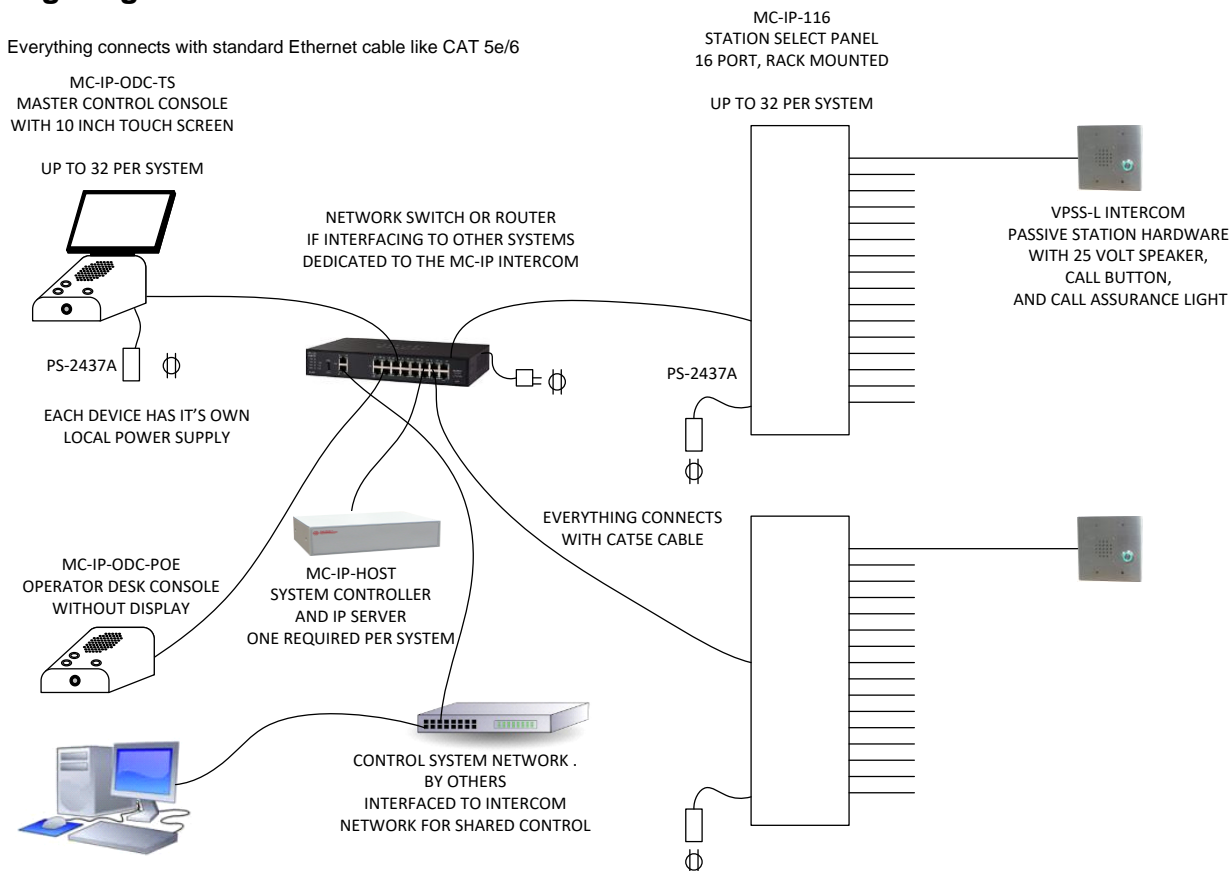


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*"Making Specialized Communication Easy"*



## Wiring Diagram:



## Architects' & Engineers' Specifications

The system shall include its own dedicated Ethernet LAN switch of adequate design and speed to support 100 Megabit ethernet communication to up to 16 ports per unit. If POE devices are included in the system design, the switch shall include POE ports for all POE devices. At least one of the LAN switches in a system shall include a WAN port for routing of messages between the Integrated Detention Grade Audio Inter-Communication System Over Internet Protocol and other networks that may want to share information with the audio intercom system. At no time shall the system share an Ethernet LAN switch with other systems to insure the best possible performance and audio quality. The router shall be programmed to restrict access to the audio intercom system from outside interruptions.

The LAN switch shall include a power supply of universal AC source type.

The Internet Protocol System Controller / Host shall be Tech Works MC-IP-SW-16-\*

