jack, and an audible ringer (which may be disabled). The Model 104 permits up to eight callers on at one time. The callers hear each other and they hear the host. The call may be switched to an alter-
nate CU5EP keypads for off-air communications. When callers are off-hold, they may be "backfed" program audio or music on hold. The host may transfer an entire group of callers from air to hold or to hold with a single keystroke. A beep signals the caller when he goes on-air. A caller may be transferred back to the line director or dropped from the line instantly.

Not all applications require the capacity of the Model 104. The Symetrix 104 Interface is ideal for the smaller format broadcast stations, corporate user or educational institution. This unique microprocessor-
based unit handles up to four incoming telephone lines at once.

The 104 may be used in conjunction with a standard user provided touchtone phone or in a "hands-free" mode. All lines may be released, routed and released by buttons on the desk console. The control functions include select, release, transfer to hold, transfer to air, and transfer to se.

Up to four callers may be con-

tinued "on-air" at one time. An output and gain control on the desk-module provide caller monitoring via headphones. The desk-module also contains an audible ringer which may be muted by a switch on the module. An additional switch on the desk-module enables the "auto answer" mode in which incoming calls may be selected, routed to, and released with single keystrokes for rapid polling of callers.

Jack, and an audible ringer (which may be disabled). The Model 104 permits up to eight callers on at one time. The callers hear each other and they hear the host. The call may be switched to an alternate CU5E keypads for off-air communications. When callers are off-hold, they may be "backfed" program audio or music on hold. The host may transfer an entire group of callers from air to hold or to hold with a single keystroke. A beep signals the caller when he goes on-air. A caller may be transferred back to the line director or dropped from the line instantly.

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### Specifications 104/108

<table>
<thead>
<tr>
<th>Model</th>
<th>104</th>
<th>108</th>
</tr>
</thead>
<tbody>
<tr>
<td>Telephone Line Connectors</td>
<td>standard loop start, dial or telephone lines</td>
<td>4</td>
</tr>
<tr>
<td>Terminal Audio Input</td>
<td>electronically balanced differential input switchable between mic and the lines</td>
<td>1</td>
</tr>
<tr>
<td>Line input impedances:</td>
<td>&gt;1k ohms</td>
<td>1</td>
</tr>
<tr>
<td>Audio On-Hold Input</td>
<td>electronically balanced differential, Accepts nominal input levels from</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>&gt;200mVrms, 4Kohms</td>
<td></td>
</tr>
<tr>
<td>Audio Output</td>
<td>input impedances: 40k ohms</td>
<td>2</td>
</tr>
<tr>
<td>System Frequency Response</td>
<td>250 Hz to 10k, nominal</td>
<td></td>
</tr>
<tr>
<td>Telephone Connectors</td>
<td>RJ-11 (push-pull)</td>
<td></td>
</tr>
<tr>
<td>Audio I/O Connectors</td>
<td>4-pair terminals</td>
<td></td>
</tr>
</tbody>
</table>

### System Specifications

- **Dimensions, desk console:** 6" x 10" x 3 1/2"
- **Shipping weight:** 15 lbs

**Power requirements:** Factory supplied or remote 120VAC/60Hz, 20-24VDC/100mA or 120VAC/100mA is available upon request.

**User-Adjustable Controls:**
- Latch key: audio on/hot line, caller transmit level, coarse hybrid rail, HP hybrid rail, caller receive level, ringer volume.

**Console to Controller Cables:**
- 25 feet, 25 pair, twisted, shielded with connectors.

In the interest of continuing product development, prices and specifications of Symetrix products are subject to change without notice.

**Symetrix**

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Keep the FCC happy. Symetrix 104 and 106 are built to be used in the real world. By interconnecting operators. Under less than ideal conditions. And with less time that needed to do the job in hand. The Symmetrix 104 and 106 are built as they’re virtually unprotected to operate.

Easy to hook up. Installing a Symetrix 104 or 106 is almost as simple as plugging in a home phone. Just plug in standard bulk modular plugs. Connect the audio equipment to your console. Balance the lines, and voila! You’re done. Your incoming telephone equipment is ready for interconnecting with other incoming equipment. Whether it be incoming voice or call data.

The Symetrix 104 or 106 are all Symetrix approved for direct connection to existing telephone lines. Connect to a System Control or Part 51 and Part 55 regulations of the Federal Communications Commission.

Microprocessor Controlled. This Symetrix standard is supported from the 104 and 106. Symetrix's heart, a microprocessor, controls everything...from power supply to an electronic system, a siren, a telephone, a speaker, a computer, and a telephone. The Symetrix heart comes as a standard input at the Service Center. This heart is programmed to perform any task, from adding a phone, to adding a computer, to adding a siren, to adding an electronic system, or a telephone. The Symetrix heart can perform any task, from adding a phone, to adding a computer, to adding a siren, to adding an electronic system, or a telephone.

Built-in hybrids. The Symmetrix 104 and 106 are both equipped with electronic hybrid equipment. This hybrid equipment is designed to provide full duplex (2-way) conversation between incoming and outgoing calls. The Symmetrix 104 and 106 have a hybrid. The Symmetrix 104 and 106 have a hybrid which allows for full duplex conversation. This hybrid is designed to provide full duplex conversation between incoming and outgoing calls. The Symmetrix 104 and 106 have a hybrid which allows for full duplex conversation between incoming and outgoing calls.

Designed in America, Built in America. Yes, the Symmetrix 104 and 106 are designed and built in America. And that’s important. It means that if you ever have a problem, you can call up on the phone and talk to a real person who actually knows how the product was designed. Although you probably won’t need assistance, we are available and we do our best to assist you in our product. We just thought you’d like to know.