16-Channel Digital ULTRANET Distributor

Features

• Distribution Hub for P16-I for system expansion
• 1 ULTRANET input feeds 8 ULTRANET outputs (RJ-45)
• Provides bus-power and 16-channel signal transmission for all 8 outputs
• Up to six P16-D ULTRANET Distributors can be combined for a total of forty-eight P16-M Personal Mixers
• Status LED indicators for RJ-45 input and 8 RJ-45 outputs
• Internal autorange power supply for maximum flexibility (100 - 240 V~), noise-free audio, superior transient response plus low power consumption for energy saving
• Extremely rugged construction ensures long life even under the most demanding conditions
P16-D

16-Channel Digital ULTRANET Distributor

Overview

The POWERPLAY P16-D ULTRANET Distributor extends and expands the POWERPLAY P16 personal monitor system by duplicating a single low-latency (< 0.9 ms), 16-channel, 24-bit ULTRANET signal into 8 identical digital outputs. These 8 cloned digital signals can then each be sent to a P16-M personal mixer or other ULTRANET device.

Each P16-D ULTRANET Distributor receives the ULTRANET signal through a single CAT5e RJ-45 input jack. The P16-D then clones the ULTRANET signal and sends 8 copies back out through the unit’s 8 ULTRANET RJ-45 output jacks.

In addition to the ULTRANET 16-channel digital signal, each P16-D also sends out a power signal through each ULTRANET output. When power outlets are scarce, each of these bus-power signals can be used to power a P16-M mixer. Each of these P16-M mixers then allows each user to create their own personal, customized headphone or monitor mix.

Within a large ULTRANET network originating from a P16-I Input Module, the P16-I Input Module can send out 6 identical ULTRANET signals, each with 16 channels of 24-bit audio, to 6 P16-D hubs. Each P16-D hub in turn distributes 8 copies of the same 16-channel digital signal to 8 P16-M Digital Mixers, for a total of 48 P16-M mixers.

The P16-D also seamlessly integrates with the X32 digital mixer. The X32’s single ULTRANET output signal can be sent to a single P16-D hub for further distribution to P16-M mixers or additional P16-D distribution hubs.

As part of an ULTRANET network, the P16-D supports a complete personal monitoring solution for live, studio, or installed sound applications.

Technical Specifications

<table>
<thead>
<tr>
<th>UltraNet Distributor</th>
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<tbody>
<tr>
<td>Digital Inputs / Outputs (UltraNet)</td>
<td></td>
</tr>
<tr>
<td>• UltraNet in</td>
<td>1 x RJ45</td>
</tr>
<tr>
<td>• UltraNet outputs</td>
<td>8 x RJ45</td>
</tr>
<tr>
<td>Power Supply / Voltage (Fuses)</td>
<td></td>
</tr>
<tr>
<td>• USA / Canada</td>
<td>120 V~, 60 Hz (T 1 A H 250 V)</td>
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<tr>
<td>• UK / Australia / Europe</td>
<td>220-240 V~, 50/60 Hz (T 1 A H 250 V)</td>
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<tr>
<td>• Korea / China</td>
<td>220-240 V~, 50/60 Hz (T 1 A H 250 V)</td>
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<tr>
<td>• Japan</td>
<td>100 V~, 50/60 Hz (T 1 A H 250 V)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>max. 40 W</td>
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<tr>
<td>Mains connection</td>
<td>Standard IEC receptacle</td>
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Dimensions / Weight

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<tr>
<td>• Dimensions (H x W x D)</td>
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<td>• Weight</td>
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P16-D
16-Channel Digital ULTRANET Distributor

Block Diagram

IEC POWER CONNECTION

1 2 3 4 5 6 7 8

ULTRANET IN

P16-I INPUT MODULE

POWERPLAY 16 P16-D
DIGITAL ULTRANET DISTRIBUTOR

ULTRANET OUTPUTS

P16-M DIGITAL PERSONAL MIXER

P16-M DIGITAL PERSONAL MIXER

BUS-POWER SIGNAL
> incoming power signal - ignored
> outgoing power signal - only if P16-D is powered on

16-CHANNEL DIGITAL AUDIO SIGNAL
> incoming audio signal - distributed parallel to 8 outputs
> even if P16-D is powered OFF - audio signal distributed
P16-D

16-Channel Digital ULTRANET Distributor

Dimensional Drawings

152.26 mm [5.9946 in]

254.00 mm [10.0000 in]