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PRODUCT SPECIFICATION

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**ACTIVE HUB**  
**9484 - 8 PORTS**  
**9487 - 16 PORTS**

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Document No. 60504

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DATAPOINT CORPORATION

PRODUCT SPECIFICATION

DECEMBER 1, 1977

ACTIVE HUB (8 Ports)	9484
ACTIVE HUB (16 Ports)	9487

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## 1.0 GENERAL DESCRIPTION

The 9484 Active Hub is a communications system accessory that provides an electrically isolated logical multidrop arrangement. The Active Hub can accommodate a maximum of two Hub Expander Cards. The 9484 Active Hub comes with one Hub Card installed (8 ports) while the 9487 Active Hub comes with two Hub Cards installed (16 ports). A 9486 8-port Hub Expander Card can be ordered to upgrade a 9484 (8 ports) Active Hub to a 9487 (16 ports).

## 2.0 SYSTEM CONFIGURATION

Each Hub Card, installed in an Active Hub, provides 8 ports. Two Hub Cards may be installed in a single Active Hub to provide up to 16 ports. For larger systems Hub Cards in separate Active Hubs may be interconnected via coax to provide up to 255 ports. (See 9483 RIM Product Specification for details on interconnection restrictions.)

Each port on a Hub Card may be connected to a RIM Module or a port on a Hub Card installed in another Active Hub. Direct connections between Hub Card ports and RIM Modules or other Hub Card ports may be up to 2000 feet in length. A maximum of 10 Active Hubs may be placed between any two RIMs.

## 3.0 TECHNICAL DESCRIPTION

### 3.1 Hub Card

The purpose of the Hub Card is to permit interconnection of Datapoint RIM Modules when more than 4 Modules are used in a single system or when there are great distances between Modules.

#### 3.1.1 Hub Interface

The Hub Card does not directly interface with the Datapoint parallel I/O bus. The only connections to the Hub Card are the coax cables. All coax must be either RG-62A (solid center conductor) or RG-62B (stranded center conductor) terminated with male BNC connectors. A Light Emitting Diode indicator is mounted beside each BNC connector on the Active Hub. Two states are indicated with the LED; active line (LED on), idle line (LED off). This can be used as a quick troubleshooting aid to determine whether

a line is active or not. A ninth indicator on the Hub expander card shows that data received at any one of the eight ports on the Hub card is being transmitted to the other seven ports (see Figure 4-1).

### 3.2 Power Requirements

The Active Hub contains its own power supply which may be strapped for any common-line voltage as described in Section 7.1.

### 4.0 PHYSICAL DESCRIPTION

See Figure 4-1 for an outline drawing.

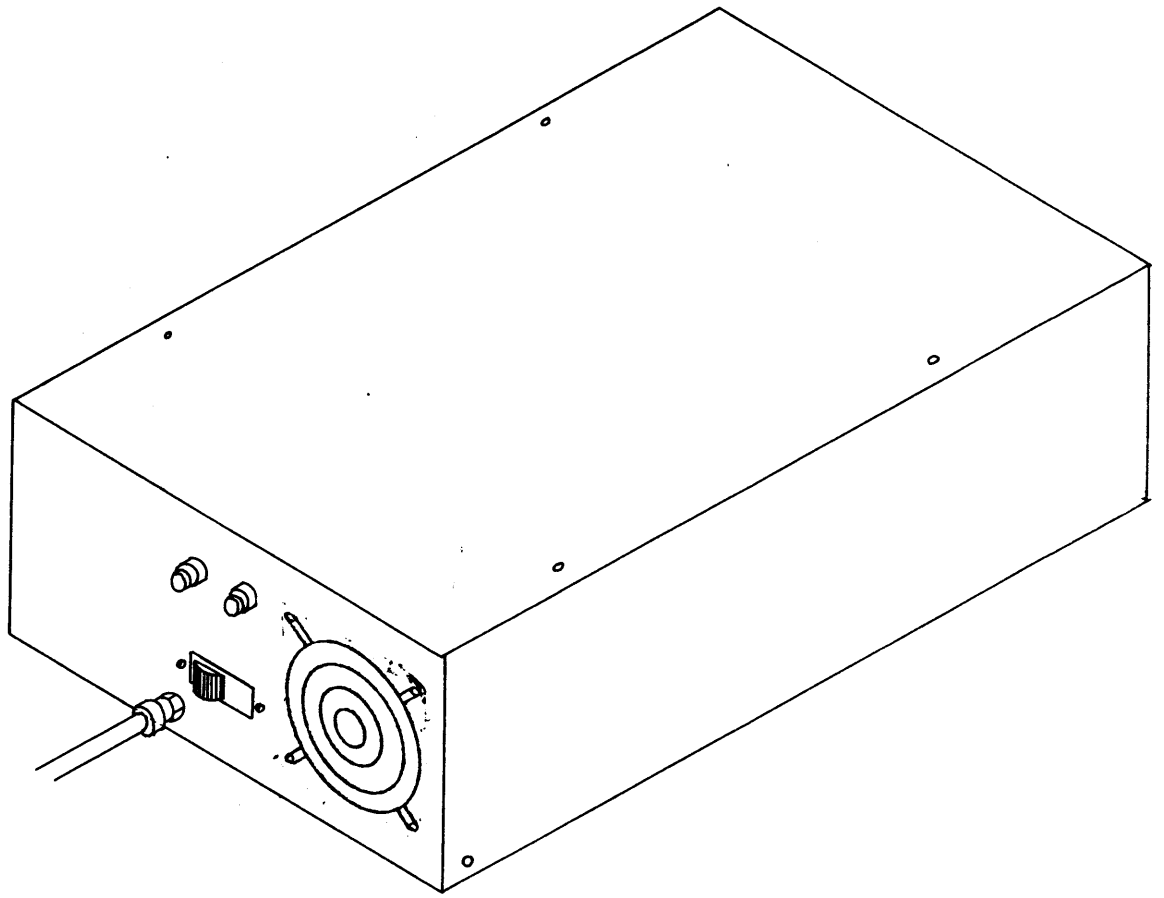
#### Equipment Dimensions:

Width:	10.5 in.	(26.7 cm)
Height:	5.25 in.	(13.3 cm)
Depth:	17.0 in.	(43.2 cm)
Weight:	16.0 lbs.	(7.3 kg)

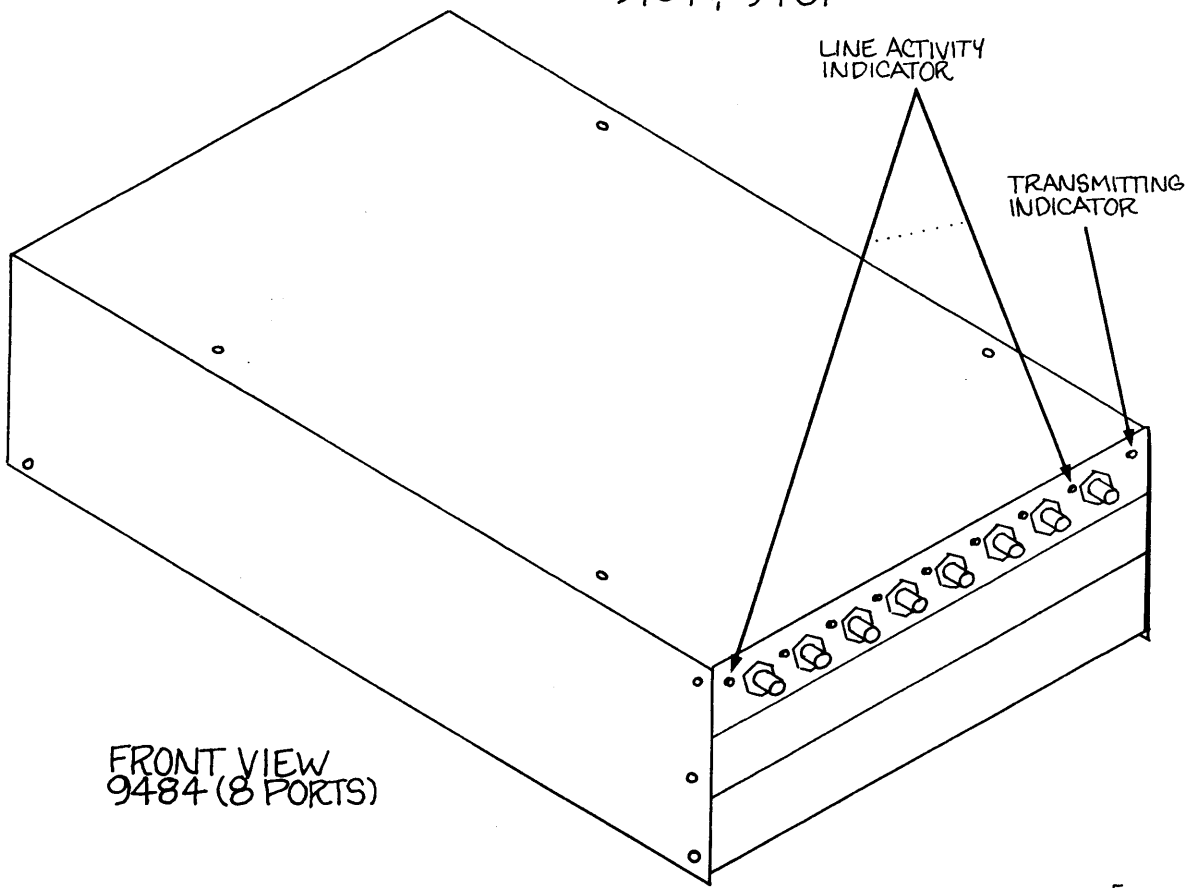
### 5.0 ENVIRONMENTAL REQUIREMENTS

50 to 100 degrees F  
(10 to 38 degrees C)  
20% to 90% relative humidity, non-condensing

Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. As temporarily permitted by regulation it has not been tested for compliance with the limits for Class A computing devices pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

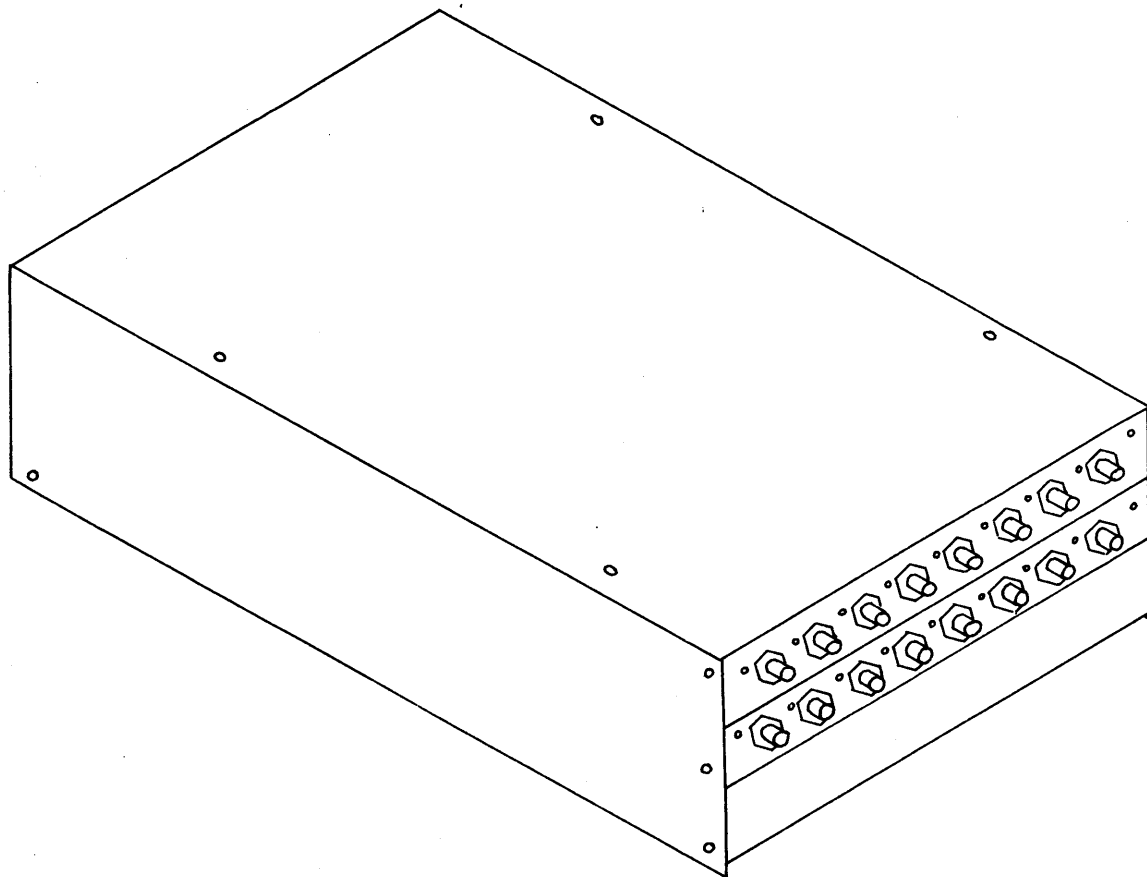


REAR VIEW  
9484 & 9487



FRONT VIEW  
9484 (8 PORTS)

FIGURE 4-1a  
ACTIVE HUB



FRONT VIEW  
9487 (16 PORTS)

FIGURE 4-1b  
ACTIVE HUB

## 6.0 INTERFACE REQUIREMENTS

The only connections to the Active Hub are coax cables. All coax must be either RG-62A (solid center conductor) or RG-62B (stranded center conductor) terminated with male BNC connectors.

## 7.0 OPTIONS

### 7.1 Power

Field alterable straps are provided to allow operation from 100, 120, 200, or 240 VAC +/- 10%, 47 to 63 Hz.

## 8.0 SHIPPING LIST

The following items are shipped with each Active Hub:

<u>Quantity</u>	<u>Item</u>
1	Active Hub Product Specification

Note: This shipping list is for illustration purposes only and may be amended from time to time by Datapoint Corporation.