

# PS-4401 1RU-96 Ports Central Office Splitter

# PS-4401

## Description

Wilcom's PS-4401 is the industries highest density ADSL2+ POTS splitter in a one rack-unit design. This 96 port 1 RU design along with Wilcom's proven performance makes it the perfect Central Office splitter. The high-density, temperature hardened splitter also has the addition of *common mode protection* creating the perfect splitter for remote cabinets.

The unique design of the PS-4401 shelf allows multiple PS-4401 shelves to be stacked together creating higher density units such as a 288 port 3U shelf which can be specified at time of ordering.

The PS-4401 is designed with the DSL connection located at the front of the shelf, and POTS and LINE interfaces in the rear. These connections are standard 50 pin Amphenol type. This unique design separates the DSL and voice connections from a common backplane significantly reducing crosstalk critical to video delivery.

The DSL connection on the front of each module is complimentary to evolving ETSI standards recommending DSL connections on the front of DSLAMs. This installation flexibility produces savings in time and expense, and is achieved by simply running a short jumper cable rather than dressing the cable down the back to the existing splitter.



## Features and Benefits

### ✓ Designed to the following standards

ANSI T1.413-1998, Annex E; ITU-T G.992.1 (G.DMT), G.992.2 (G.LITE), Annex E.2 Type 2 (North America), G.992.3 (ADSL2), G.992.5 (ADSL2+), and NEBS Level 3.

### ✓ Remote Cabinet Installations

The PS-4400 splitter modules offer both *common mode* and *differential mode* protection ensuring protection against power crosses and lightning surges.

### ✓ No AC or DC Power Required

The central office POTS Splitter is a passive device which will maintain Life-Line POTS integrity.

### ✓ 1 EIA Rack Unit Tall

At only 1 EIA rack unit tall ( 1.75"), the PS-4401 is the highest density at 96 ports, with the smallest footprint in the industry today. This unit provides for excellent remote applications where real estate is at a premium.

### ✓ Wide Spectrum of Operation

The new PS-4401 shelf is ADSL2+ ( 2.2MHz) and ADSL2 ++/quad (3.75MHz) compliant making it an excellent ADSL splitter product for delivering video, and future versions of DSL.

### ✓ Crosstalk Performance

The PS-4400 splitter modules along with the PS-4401 splitter shelf deliver excellent port-to-port crosstalk isolation.

### ✓ Environmentally Hardened

The PS-4400 POTS splitter modules meet the hardened requirements for remote deployment.

### ✓ Life-Line POTS

The PS-4401 POTS Splitter Shelf employs a Life-Line POTS feature that will not interrupt POTS service even if POTS Splitter cards are removed.

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## Technical Specification

Item	Specification
<b>Dimensions (H x W x D )</b> ( 1 EIA rack unit tall - 1.75" )	1.75" x 13.50" x 17.07" (4.44cm x 43.35cm x 34.29cm)
<b>Weight</b> <b>Splitter Module</b> <b>Shelf</b>	1.80 lbs ( .816 Kg ) 6.2 lbs ( 2.81 Kg )
<b>Life-Line POTS</b>	The PS-4401 and PS-4403 shelf support Life-Line POTS even when splitter modules are removed.
<b>Capacity</b>	<i>One</i> compact shelf supports up to 96 POTS filters, 24 POTS filters per module ( 4 modules per shelf )
<b>24 Port POTS Splitter Module</b>	Equipped with DC blocking capacitors and Signature for connections to ADSL transmission unit.
<b>Rack Mounting</b>	Both the PS-4401 and PS-4403 shelf come equipped with rack adapters for 19" rack mounting. 23" rack adapters are optional.
<b>Physical Interface</b>	Three (3) Standard 50-pin Amphenol type Telco connectors assigned to each POTS Splitter card for DSL, PSTN, and LOOP connections.
<b>Impedance</b>	900 to 600 ohms
<b>Environmental</b> <b>Operating</b> <b>Storage</b>	-40°C to +70°C -40°C to +70°C
<b>Power</b>	The Wilcom POTS splitter design employs a passive filter design and requires <i>no</i> power to the shelf.
<b>Compliant</b>	* ANSI T1.413-1998, Annex E, ITU-T G.992.1 (GDMT), G.992.2 (GLITE), Annex E.2 Type 2 (North America), G.992.3 (ADSL2), and G.992.5 (ADSL2+) * UL/CUL 60950-1
<b>Designed To Meet</b>	* NEBS Level 3 * Industry Canada (CS-03) * GR-1089 Surge Protection

Specification and prices subject to change without notice  
06/06  
813-249-007

**ISO-9001:2000 Registered**

## Ordering Information

### Product

### Part Number

Model PS-4401 ( Life-Line Version) 30440110  
( 1U shelf holds (4) POTS Splitter modules)

Model PS-4403 ( Life-Line Version) 30440310  
( 3U shelf holds (12) POTS Splitter modules)

Model PS-4400-01 30440060  
(24 Port POTS Splitter Card; DC Blocking & Signature)

Model PS-4400-02 30440010  
(24 Port POTS Splitter Card; DC Blocking, No Signature)

Model PS-4400-03 30440040  
(24 Port POTS Splitter Card; No DC Blocking & Signature)

Model PS-4400-04 30440030  
(24 Port POTS Splitter Card; No DC Blocking, No Signature)

### Accessories:

Optional PS-4401 23" Rack Adapters 30032268-01  
Optional PS-4403 23" Rack Adapters 30032268-03

## Warranty

The Wilcom PS-4400 Series of Central Office POTS Splitters are warranted against failure for a period of three years under normal usage.

# Wilcom

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