

Service Interface Panel Model SIP-1200

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OVERVIEW

The Service Interface Panel (SIP), Model SIP-1200, is a modular interface for a variety of broadband services in a relay rack, equipment cabinet, or wall mounted configuration. The SIP can be used to terminate a combination of Ethernet, T1/E1, DS3, or other copper or fiber based services by selecting the appropriate snap-in coupler. The SIP-1200 panel comes standard with blank inserts where individual terminations can be installed as needed.

Document Status

Whenever updates are made to this product or practice they will be noted in this paragraph.

Product Features

- · Carrier-class interface for high-speed services:
 - o Ethernet 10/100 and GigE (RJ45)
 - o T1/E1 (RJ48)
 - o DS3 (BNC coax)
 - Video (F-81 coax)
 - Optical services (SC, LC, ST)
- Up to 12 circuits in a 1RU chassis
- Universal installation 19" or 23" rack or wall mount
- Flexible service administration and cable management
- · Heavy duty metal construction

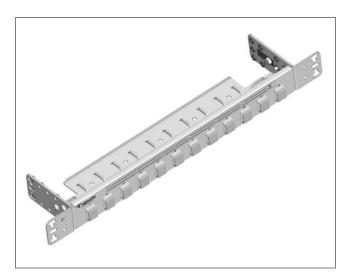


Figure 1. Service Interface Panel, SIP-1200

2. APPLICATIONS

The versatility of the SIP makes it easy to organize and consolidate services in:

- Remote cabinets
- Cell sites
- Data centers
- Multi-dwelling units (MDUs)
- · Commercial buildings

The SIP's snap-in couplers can be installed in any order or combination for efficient grooming of mixed services (see Figure 2). Front connections provide a convenient service access point, while rear connectors allow network cabling to be secured behind the panel.

3. DESCRIPTION

The front panel of the SIP-1200 accepts snap-in Keystone style couplers as shown in Figures 3 and 4. Twisted pair, coaxial, and fiber couplers can be ordered individually and inserted into the panel by the installer.

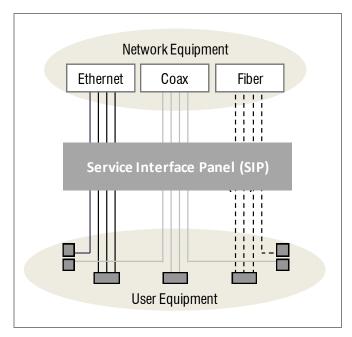


Figure 2. SIP application

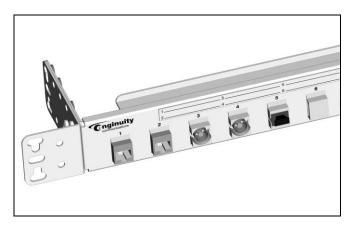


Figure 3. SIP couplers installed

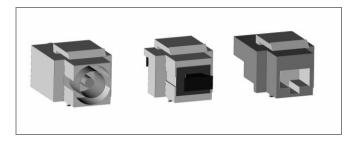


Figure 4. Example couplers (enlarged)

Mounting Options

The SIP-1200 is designed for universal installation and comes from the factory ready to install in a 23" relay rack. The mounting brackets are also adjustable for installation in a 19" rack, or reversible for wall mounting.

The unit comes from the factory with the mounting brackets positioned flush with the front of the panel, as shown in Figure 5. The brackets can be adjusted to position the front of the panel flush with the rails of a relay rack, or adjusted to protrude forward, depending on the installer's preference.

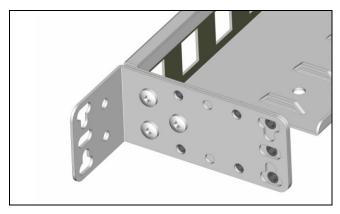


Figure 5. Mounting brackets

Construction

The SIP-1200 is 1RU (1.75 inches) in height. The chassis and mounting brackets are constructed of heavy-gauge steel and attached to a cable tray, shown in Figure 6, on the rear of the panel. The cable tray can be used to tiewrap individual cables in a secure position for routing to network equipment.

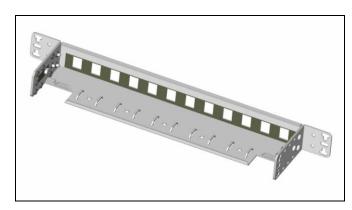


Figure 6. Rear cable tray

Circuit Designation

A circuit identification strip on the front of the SIP-1200 allows a technician to mark the physical positions of circuits terminated on the panel. The magnetic strip can be easily removed, marked appropriately, and put back in place.

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4. INSTALLATION

The SIP-1200 is shipped with (4) 12-24 slotted hex-head screws, (4) 10-32 Phillips pan-head machine screws, (12) tie-wraps, and (1) ground lug.

Mounting

To install the SIP-1200 panel, adjust the mounting brackets for the desired rack width and use the (4) slotted hex-head or Phillips-head machine screws included with the panel to secure in a relay rack. The mounting brackets slots accommodate EIA standard rack rail spacing or 1" centered telco rail spacing. For wall-mount installations, either drywall or wood screws (not included) can be used.

Grounding

The SIP-1200 panel is equipped with an 8-32 ground post, as shown in Figure 7. To ground the chassis, install the included ground lug beneath the factory installed washer and hex nut. Connect a ground wire of appropriate gauge to the ground lug, and attach the other end of the wire to a bonded ground point, per local procedures for network equipment.

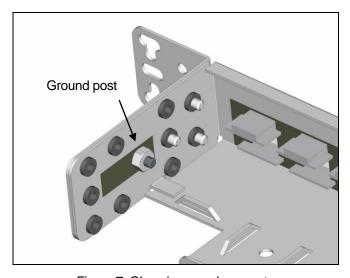


Figure 7. Chassis ground connector

Coupler Installation and Removal

Couplers are installed or removed by hand from the rear of the panel. Each coupler is held in place by angled tabs along the top and bottom of the coupler body. To install a coupler, tilt it back slightly while inserting it though the rectangular opening, until the lower tab clears the front of the panel. Then apply pressure to the upper tab and tilt the coupler body forward until it snaps in place.

To remove a coupler, apply pressure to the upper tab while tilting the coupler body backward. After the upper tab is freed, the coupler can be lifted and removed from the opening.

5. TESTING AND TROUBLESHOOTING

A test set can be connected to the front or rear jacks of the SIP-1200 to isolate and verify performance of attached cables and equipment.

6. CUSTOMER SERVICE

If technical or customer assistance is required, please contact Enginuity at the following address or phone number:

Enginuity Communications 1251 Nagel Blvd. Batavia, Illinois 60510 Toll Free: 1-800-980-3266 Local: (630) 761-1892 www.enginuitycom.com

7. WARRANTY & REPAIRS

Warranty

Enginuity warrants this product for one (1) year from date of purchase. Any attempt to repair or modify the equipment by anyone other than an authorized Enginuity representative will void the warranty.

This limited warranty does not cover any losses or damages resulting from shipment to or from the customer, or from improper installation, abuse, modifications, or unauthorized repair by other than Enginuity personnel.

Repair and Return

Enginuity equipment will be repaired or replaced without cost during the warranty period if the product is defective for any reason other than abuse, improper use, or improper installation. Before returning defective equipment, first request a Return Material Authorization (RMA) number from Enginuity. Once an RMA number is obtained, return the unit, freight prepaid, along with a brief description of the problem, to:

Enginuity Communications 1251 Nagel Blvd. Batavia, Illinois 60510 ATTN: Repair & Return Dept.

Replacements will be shipped in the fastest manner consistent with the urgency of the situation. Repair or replacement of faulty equipment beyond the warranty period is available for a nominal charge. Contact Enginuity for details.

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8. SPECIFICATIONS

Chassis

PART NUMBER	SIP-1200 (shipped with 12 blank inserts installed)
HEIGHT	1.75 inches (1RU)
WIDTH	19.0 or 23.0 inches; adjustable mounting brackets
DEPTH	4 inches to 6 inches; adjustable mounting brackets
WEIGHT	24 oz., nominal

Keystone Couplers

PART NUMBER	FRONT CONNECTOR	REAR CONNECTOR	NOTES	
CPL-5E-1	Cat5E RJ45	Cat5E RJ45	RJ45 jacks carry all 8 conductors and can be used as RJ48. Connectors marked with an asterisk (*) include gel coated contacts.	
CPL-Q5E-1	Cat5E RJ45*	Cat5E RJ45*		
JCK-5E-KRO-1	Cat5E RJ45	KRONE®/110		
JCK-Q5E-KRO-1	Cat5E RJ45*	KRONE®/110		
CPL-6S-1	Cat6E RJ45	Cat6E RJ45		
CPL-Q6S-1	Cat6E RJ45*	Cat6E RJ45*		
CPL-BNC-1	Coax BNC	Coax BNC		
CPL-F81-1	Coax F81	Coax F81		
CPL-LC-1	Fiber LC	Fiber LC	Fiber couplers accept single-mode or	
CPL-SC-1	Fiber SC	Fiber SC	multi-mode fiber.	
CPL-SC-APC-1	Fiber SC-APC	Fiber SC-APC		
CPL-ST-1	Fiber ST	Fiber ST		

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Accessories

PART NUMBER	DESCRIPTION
DRNG-U-1	Universal D-Ring (1RU); rail mounted

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