

1199-C16/32 Multiplexer

Operator's Manual

P/N 707025-004

Issue/Revision Schedule		
Comments	Rev. No.	Date
Initial Release	707025-001	9/13/99
Technical Update	707025-002	3/31/00
Technical Update	707025-003	4/12/00
Update	707025-004	8/09/06

The information contained in this document is subject to change without notice. **Visara International makes no warranty of any kind with regard to this material including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose.** Visara International shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this material.

Safety and Regulatory Information

Safety

- * UL1950, CSA950
- * CE Mark, IEC950, EN60950, EU Low Voltage Directive

Electro-Magnetic Interference

- * This equipment has been tested and found to comply with the limits for FCC part 15 Class B environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio communications. Operation is subject to the following two conditions:
 - (1) This device may not cause harmful interface, and
 - (2) This device must accept any interface received, including interface that may cause undesired operation.
- * This apparatus complies with the CDoC CLASS "B" limits for radio interference as specified in the Canadian Department of Communications Radio Interference Regulations. Operation in a residential area may cause unacceptable interference to radio and TV reception requiring the owner or operator to take whatever steps are necessary to correct the interference.
- * Cet appareil est conforme aux normes CDoC CLASS "B: D'Interference radio tel que specifier par le Ministère Canadien des communications dans les règlements D' Interference Radio. Cet équipement ne dépasse pas les limites de Classe B d'émission de bruits radioélectriques pour les appareils numériques, telles que prescrites par le Règlement sur le brouillage radioélectrique établi par le Ministère des Communications du Canada. L'exploitation faite en milieu résidentiel peut entraîner le brouillage des réceptions radio et télé, ce qui obligerait le propriétaire ou l'opérateur à prendre les dispositions nécessaires pour en éliminer les causes.
- * CE mark, EN50022 Class B, EN50082-1, EU EMC Directive
- * UCCI-B

Information in this document is subject to change without notice. Other products and companies referred to herein are trademarks or registered trademarks of their respective companies or mark holders.

Table of Contents

Chapter 1. Introduction	1-1
1199-C16	1-1
1199-C32	1-1
Chapter 2. Customer Installation	2-1
Environmental Requirements	2-1
Physical Statistics	2-1
Environmental Parameters	2-1
Power Cable	2-1
Site Requirements	2-2
Inspecting the Package	2-2
Unpacking the Unit	2-3
Communications Cabling	2-4
1199-C16/32 Rack Mounting	2-4
Device Connection	2-4
Chapter 3. Customer Maintenance Procedures	3-1
Preventive Maintenance	3-1
Problem Isolation Procedure	3-1
Warranty / Service	3-2

Chapter 1. Introduction

1199-C16

The 1199-C16 Multiplexer provides for the attachment of up to 16 devices on one multiplexed output port from a 1174 Communications Server. The multiplexer's device ports are equipped with Dual Purpose Connectors (DPC) permitting the attachment of coaxial cable and/or twisted pair type transmission media such as Type 1, 2, 3, or 9.

The 1199-C16 Multiplexer has LEDs to indicate power and communication activity between the Communications Server and attached devices. The PWR LED indicates power applied to the unit. LEDs at the input port and device ports indicate activity between the Communications Server and devices.

1199-C32

The 1199-C32 Multiplexer provides for the attachment of up to 32 devices on one multiplexed output port from a Communications Server. The multiplexer's device ports are equipped with Dual Purpose Connectors (DPC) permitting the attachment of coaxial cable and/or twisted pair type transmission media such as Type 1, 2, 3, or 9.

The 1199-C32 Multiplexer has LEDs to indicate power and communication activity between the Communications Server and attached devices. The PWR LED indicates power applied to the unit. LEDs at the input port and device ports indicate activity between the Communications Server and devices.

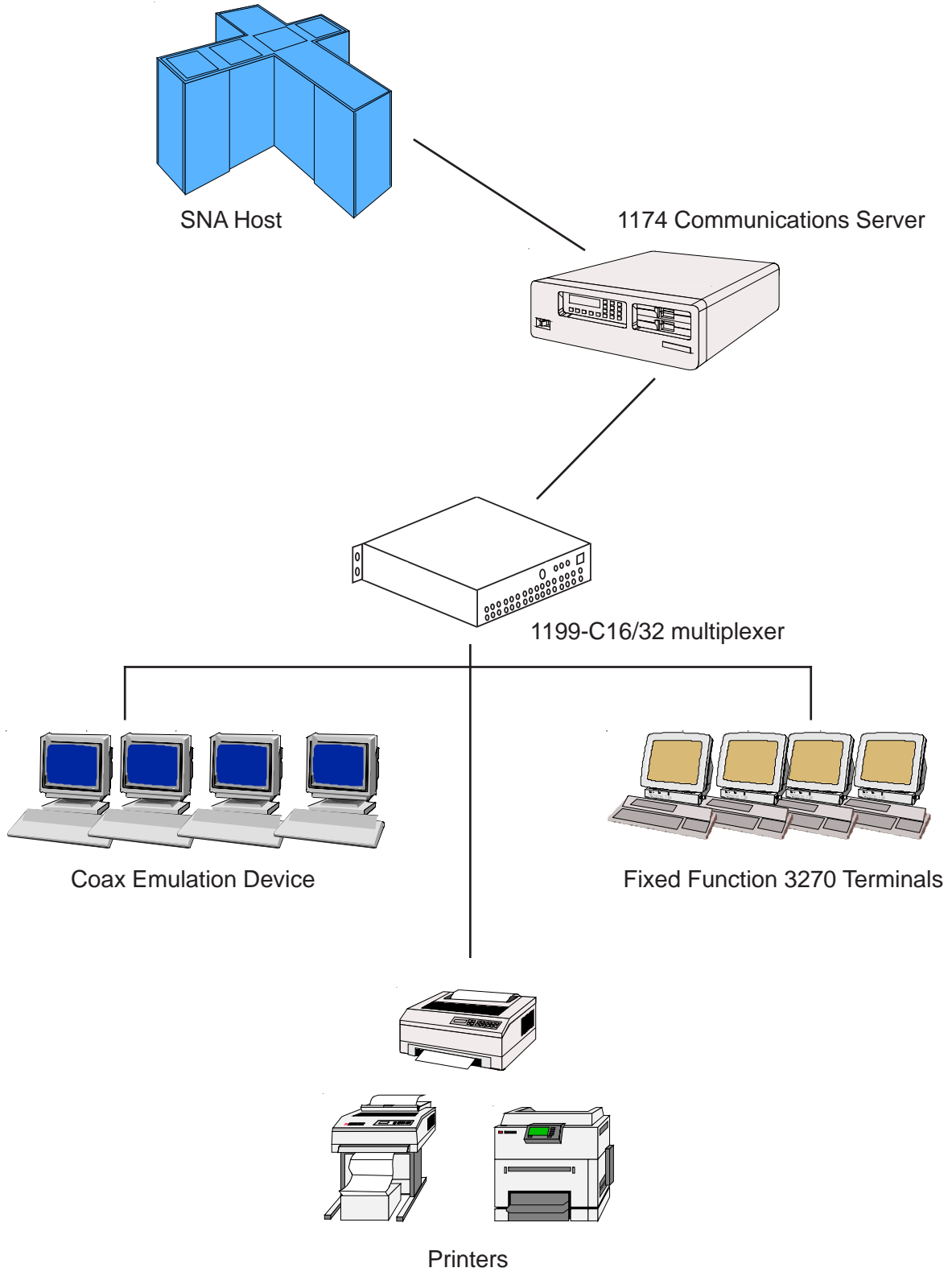


Figure 1-1. Typical 1199 MUX Network Connection

Chapter 2. Customer Installation

The 1199-C16/32 Multiplexer is designed to be customer installable. No special equipment or tools are required to unpack or install the unit

Environmental Requirements

The following parameters must be adhered to for the proper operation of the 1199 Multiplexer.

Physical Statistics

	<u>1199-C16</u>	<u>1199-C32</u>
Weight:	10.5 lb (4.8 Kg)	10.75 lb (4.9 Kg)
Height	3.37 in (8.56 cm)	3.37 in (8.56 cm)
Depth:	15.5 in (38.1 cm)	15.5 in (38.1 cm)
Width	17.0 in (43.18 cm)	17.0 in (43.18 cm)
Power Consumption:	12.25 W (typical)	24.5 W (typical)
Heat Dissipation:	42 BTU/hr	84 BTU/hr

Environmental Parameters

Clearance:	3 inches (7.62 cm) on each side of the unit for cooling
Temperature Range:	50° to 105°F (10 to 40.5C)
Relative Humidity:	8% to 80% (no condensation)
Maximum Wet Bulb:	80°F (26.7C)
Power:	90-132 VAC or 180-264 VAC at 47 to 63 Hz

Power Cable

For units operating at 100-120V: The power cable required for domestic units is a UL listed, GSA certified, 18/3 AWG, type SVT or SJT, cable (15-foot [4.6-meter] maximum). It is terminated on one end by a 125V, 15A grounding type attachment plug. It is terminated at the other end by a 125V, 15A parallel blade, grounding type attachment plug.

For units operating at 200-240V: The power cable required for domestic units is a UL listed, GSA certified, 18/3 AWG, type SVT or SJT, cable (15-foot [4.6-meter] maximum). It is terminated on one end by a 250V, 15A grounding type attachment plug. It is terminated at the other end by a 250V, 15A tandem blade, grounding type attachment plug.

The power cable required for international units is an 18/3 AWG, type SJT, cable (15-foot [4.6-meter] maximum). It is terminated on one end by a 250V, 15A grounding type attachment plug body. It is terminated at the other end by a 250V, 15A grounding type cord connector. The cord set is marked HAR to signify appropriate safety approvals. The socket outlet must be nearby and easily accessible, per IEC 950 Sec. 1.7.2.

Site Requirements

The installation site must provide a properly wired and grounded power outlet. Circuits connected to air conditioners and devices that generate significant transient electrical noise should be avoided.

Electrostatic discharge in the vicinity of the unit should be minimized by avoiding high resistance floor material and carpeting that does not have anti-static properties, avoiding the use of plastic seats and covers, and avoiding low humidity levels. The unit should be located away from areas that generate electromagnetic interference (for example, transformers, power distribution panels, and motors). The unit should not be installed where the atmosphere contains corrosive elements that may damage the unit.

Cable runs should avoid areas that produce electromagnetic interference (for example, near transformers, switching equipment, power distribution panels, and under carpets where vacuum cleaning is done). Also, heavy equipment should not be moved or rolled over the cable.

Inspecting the Package

If your multiplexer packaging appears to have been damaged in shipment, please do not open it. Rather, you should report the damage to the carrier upon delivery. If you determine that your multiplexer has concealed damage when you open the package, report the damage to your carrier as soon as possible. In both situations, you should also call Visara Customer Service to report the problem.

Unpacking the Unit

Perform the following procedure to unpack the multiplexer from the shipping carton.

1. Move the packaged unit to the area where it is to be installed (the standard power cable shipped with the unit is 12 feet [3.66 meters] in length). Place the carton in an upright position. Refer the markings on the carton.
2. Remove or cut the tape on the top of the container and open the flaps.
3. Remove the power cord and operators' manual.
4. Lift the unit from the carton and place it in its operating location.
5. Save the packing material for reshipment, such as mail-back repair.

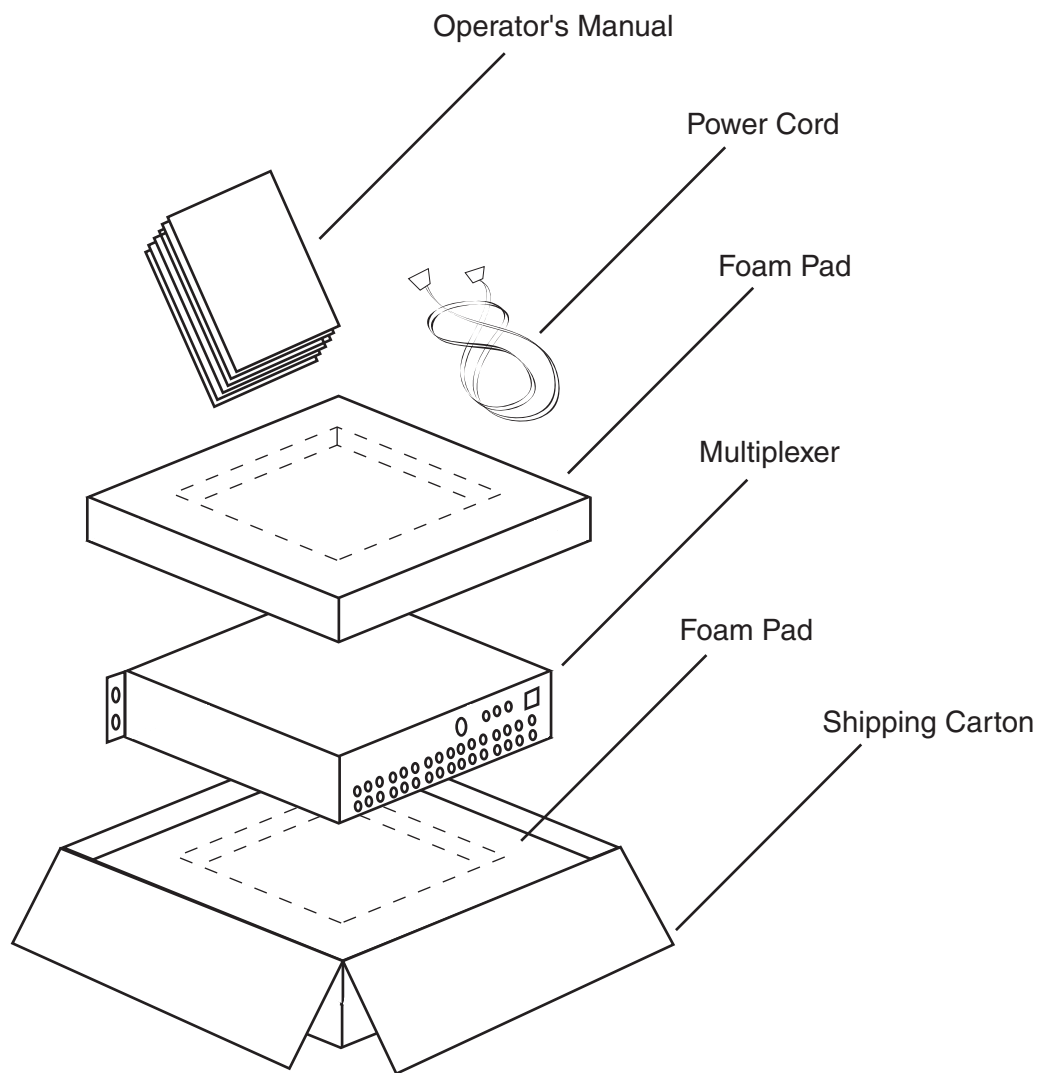


Figure 2-1. 1199-C16/32 Unpacking

Communications Cabling

The 1199-C16/32 Multiplexer supports only coaxial cable type BNC connectors for connection to the Communications Server. The device port connectors are Dual Purpose Connectors (DPC) permitting the attachment of coaxial cable and/or twisted pair type transmission media.

1199-C16/32 Rack Mounting

The 1199-C16/32 Multiplexers are designed with holes to mount them in a standard equipment rack. Four holes are provided for rack mounting. Refer to Figure 2-2.

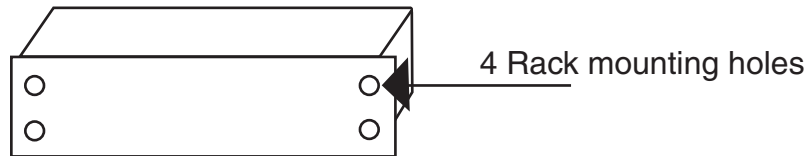


Figure 2-2. Front view 1199-C16/32, Rack Mounting

Device Connection

Ensure the multiplexer is within reach of an acceptable AC power receptacle. There is no power switch on the unit. Connecting the multiplexer to an AC power source is the last step in installation. When plugged in, the green power LED on the back panel lights, indicating power is applied and the unit is on.

Connect the multiplexer in the following manner.

1. Connect the transmission cable from the Communications Server (this must be a multiplexed output port) to the BNC connector at the top right back on the multiplexer.
2. Connect the associated devices to the connectors labeled 0 through 15 on the 1199-C16, or 0 through 31 on the 1199-C32.
3. Plug the equipment side of the power cord into the multiplexer power receptacle.
4. Plug the voltage side of the power cord into an appropriate AC power outlet. The installation of the multiplexer is now complete.

Chapter 3. Customer Maintenance Procedures

This chapter provides instructions for preventive maintenance and determining whether problems encountered are due to the 1199-C16/32 Multiplexer or to an attached unit. Instructions for service calls and unit return are also provided.





Preventive Maintenance

Preventive maintenance for the 1199 Multiplexer is limited to keeping the unit clean and dust-free. All ventilation ports must be kept free of dirt and dust.

This product is a non customer servicable device. This product should only be serviced by an authorized service provider.

Problem Isolation Procedure

The following describes LED indications and procedures in isolating functional problems to the 1199-C16/32 Multiplexer.

LED	Condition	Status
PWR Input	On	Power is applied to the 1199-C16/32 Multiplexer.
Received  Transmit 	Both - Off	Server is communicating normally with at least one of the attached devices. The LED(s) associated with working device(s) should be ON.
	 Off  On or Blinking	The server is unsuccessfully attempting to communicate with any attached devices. If devices are attached, turn them off then back on.
	Both - On	The server is not communicating with the multiplexer.
Device Port (0-15/31)	On	Normal device operation for the device attached to the associated port.
	Off	If the Input LED is on or blinking, check the device or the transmission line to the device. If the Input LED is off, check the communication server.
	Blinking	The server requires this device be turned off then on. (The device may have been temporarily disconnected, then reconnected.)

Warranty / Service

Warranty service must be performed by the assigned warranty service provider for the equipment. If you are unsure of the equipment warranty status or who can perform warranty service, please e-mail us at Intellicenter@visara.com. Please include your equipment model and serial number. The serial number is located at the base of the unit.

1. If your multiplexer packaging appears to have been damaged in shipment, please do not open it. Rather, you should report the damage to the carrier upon delivery. If you determine that your multiplexer has concealed damage when you open the package, report the damage to your carrier as soon as possible. In both situations, you should also call Visara Customer Service to report the problem and have a replacement multiplexer shipped to you.
2. If your multiplexer fails to work properly during its initial installation or within 48 hours, please call Customer Service to report the problem.
4. For additional technical support, please contact the Visara IntelliCenter.

Intellicenter: 888-542-7282

Customer Support: 919-882-0206