



Peripheral Equipment

This chapter describes the process of identifying the peripheral equipment required to meet general system implementation requirements. For complete information about peripheral equipment, cabling, and setup parameters, refer to the *Cisco VCO/4K Site Preparation Guide*.

Peripheral Equipment and Accessories

VCO/4K systems require the following peripheral equipment to perform system functions and support remote maintenance:

- One master console VDT
- One system printer
- One remote maintenance modem

Peripheral equipment must meet the specifications detailed in this chapter in order to guarantee full VCO system operation.

Video Display Terminals

The master console should be a VDT capable of emulating a VT220. A VT220/320 type digit keypad on the keyboard allows the administrator to use preprogrammed administration keys for viewing and altering database information.

One three-conductor, shielded, male/female (DB-25P-to-DB-25S) EIA/TIA-232 cable is required to directly connect a VDT to a dedicated serial port (Serial Port 1/Console) on the Storage/Control I/O Module. See the *Cisco VCO/4K Hardware Installation Guide* for the pinout details for the master console cable.

Printers

A dot-matrix printer with a Centronics-type parallel interface is required for printing out periodic system reports. One 36-conductor, shielded, male/male Centronics-type cable is required to directly connect a printer to the parallel port on the Storage/Control I/O Module.

**Note**

Cisco strongly recommends the use of a printer for obtaining hard copy of message traces during the development of VCO/4K application programs. The printout facilitates debugging and provides the information required to obtain Cisco technical support.

Remote Maintenance Modem

Cisco TAC may require remote access to the VCO/4K system, which is accomplished by a modem.

**Note**

Cisco recommends a separate, dedicated line for the modem connection.

Automatic External A/B Transfer Switch

For systems with redundant control, an automatic EIA/TIA-232 A/B transfer switch may be used to interface a single VDT, printer, or remote maintenance modem to the system. One A/B switch drive cable is also required between the Alarm Arbiter Card and each A/B switch. The cable is prewired for daisy-chain connection to colocated switch units. One A/B transfer switch unit is required for each peripheral device to be switched.

The A/B transfer switch unit automatically connects a peripheral device to the Active side of the redundant control system.

Summary of Peripheral Equipment

Enter your total VDT, printer, and modem requirements in Table 3-1.

Table 3-1 VDT, Printer, and Modem Configuration

VDTs, Printers, Modems	Quantity
VT320 Video Display Terminal	
Parallel Printer	
External EIA/TIA-232 A/B Switch	
Modem	
Drive Cable for External A/B Switch	

Table 3-2 shows the peripheral cable components. (Contact your Cisco sales representative for current assembly numbers and prices.) Enter the quantity and price for each component to calculate the total cost of cables.

Table 3-2 Peripheral Cable Configuration

Peripheral Cables	Assembly Number	Quantity
Printer Cable—Centronics M/M, 20 ft		
Adapter Cable—Centronics/DB25, M/M, 15 ft		
4-Conductor, M/M, EIA/TIA-232, 10 ft		
4-Conductor, M/M, EIA/TIA-232, 25 ft		
4-Conductor, M/M, EIA/TIA-232, 50 ft		
4-Conductor, M/F, EIA/TIA-232, 10 f.		
4-Conductor, M/F, EIA/TIA-232, 25 ft		
4-Conductor, M/F, EIA/TIA-232, 50 ft		
9-Conductor, M/M, EIA/TIA-232, 10 ft		
9-Conductor, M/M, EIA/TIA-232, 25 ft		
9-Conductor, M/M, EIA/TIA-232, 50 ft		

