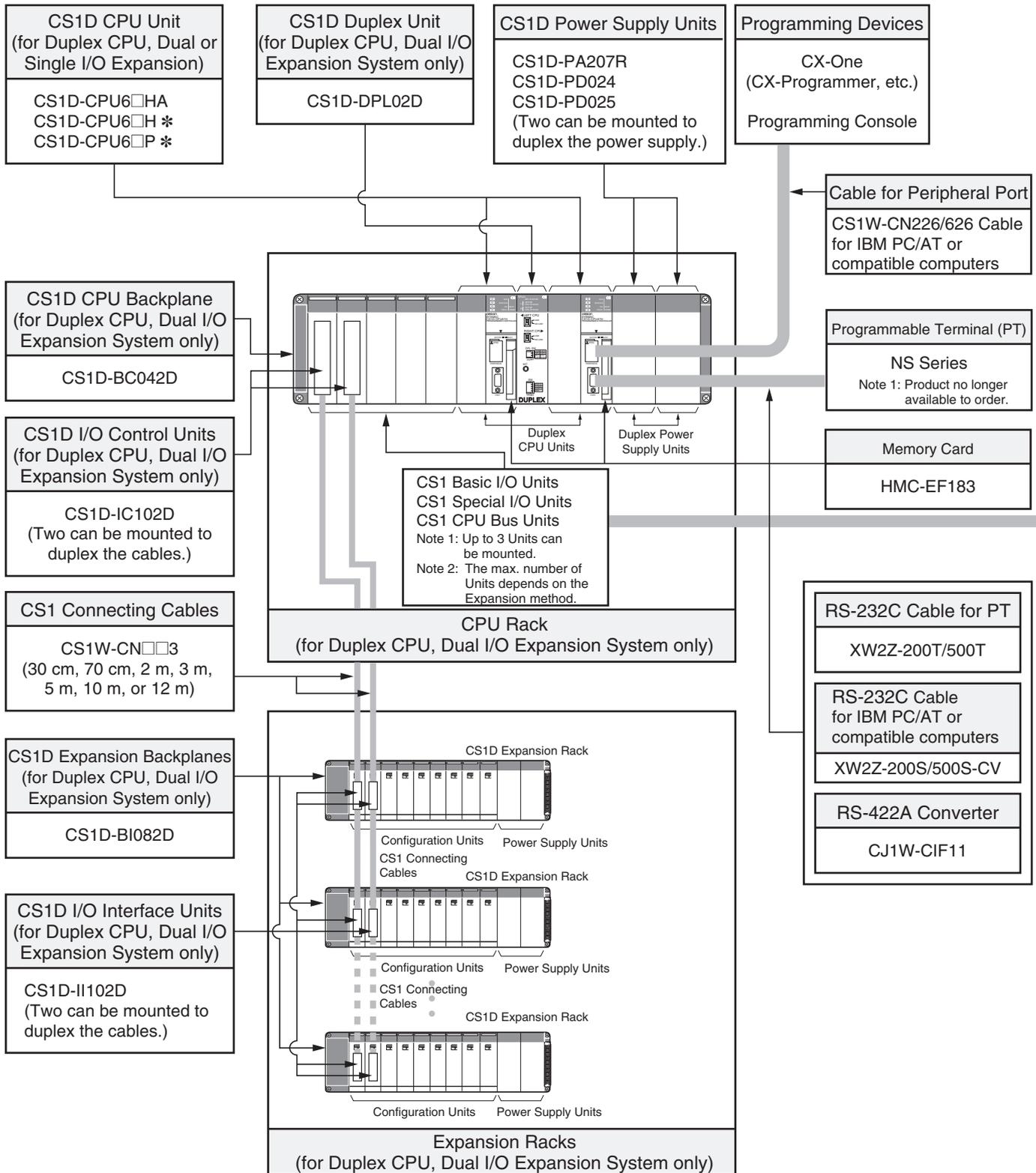


# System Configuration

## Basic System

### SYSTEM 1 CS1D Duplex CPU, Dual I/O Expansion System



\* The CS1D-CPU6□H/CS1D-CPU6□P CPU Unit version 1.3 or later is required.



**Basic System**

**SYSTEM 1 CS1D Duplex CPU, Dual I/O Expansion System**

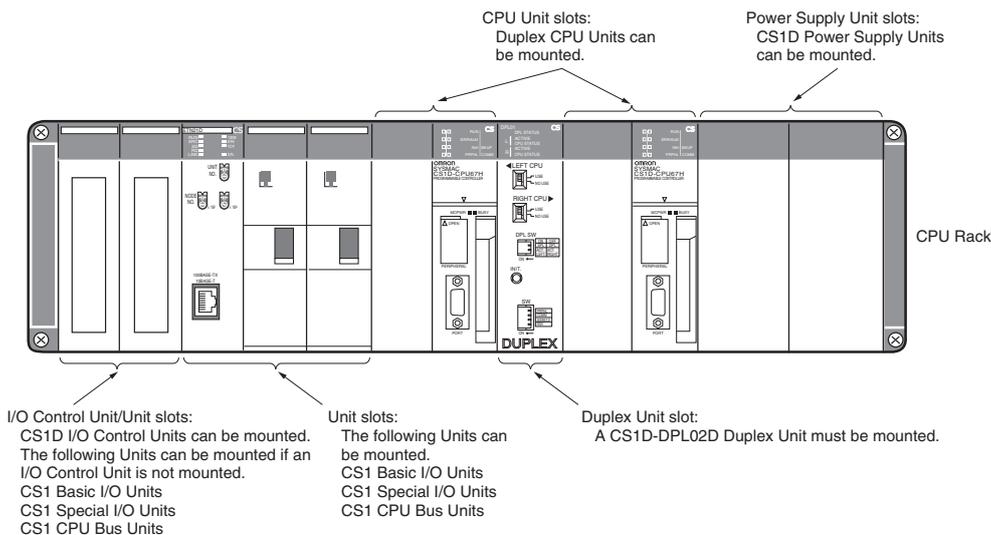
The entire system, including the expansion cables, can be duplexed for the most advanced redundancy and maintenance functions.

The CS1D-CPU6□HA CPU Unit supports FB, ST and SFC programming.

The CS1D-CPU6□H CPU Unit must be version 1.3 or later.

**■ CPU Rack**

**System Configuration**



**List of Required Devices**

Rack	Unit name	Number required
CPU Rack	CS1D-BC042D CPU Backplane (for Duplex CPU Dual I/O Expansion Systems)	1 Backplane
	CS1D-PA207R/CS1D-PD02□ Power Supply Unit	2 Units (Just 1 Unit can also be used.)
	CS1D-CPU6□HA/CS1D-CPU6□H/CS1D-CPU6□P CPU Unit	2 Units
	CS1D-DPL02D Duplex Unit (for Duplex CPU Dual I/O Expansion Systems)	1 Unit
	CS1D-IC102D I/O Control Unit (for Duplex CPU Dual I/O Expansion Systems)	Required only when there is an I/O Expansion System. Two Units are required for a Dual I/O Expansion System, and just one Unit is required for a Single I/O Expansion System.
	Maximum number of I/O Units	Dual I/O Expansion System Single I/O Expansion System No I/O Expansion

# Ordering Information

## Basic System

### SYSTEM 1 CPU Rack (Duplex CPU, Dual I/O Expansion System)

The CPU Rack requires a CS1D CPU Backplane (for a Duplex CPU, Dual I/O Expansion System), one or two CS1D Power Supply Units, and two CS1D CPU Units (for a Duplex CPU, Dual I/O Expansion System or Single I/O Expansion System). When an Expansion Rack is connected, two I/O Control Units are required.

### CS1D CPU Units

Name	Specifications						Current consumption (A)		Model
	Number of I/O points	Program capacity	Data Memory	Programming	Duplex CPUs	Interrupt functions	5 V system	26 V system	
	5,120 points (7 Racks)	400 Ksteps	832 Kwords (DM: 32 Kwords, EM: 32 Kwords × 25 banks)	Ladder, FB, ST, SFC	OK	---	0.82 *	---	CS1D-CPU68HA
		250 Ksteps	448 Kwords (DM: 32 Kwords, EM: 32 Kwords × 13 banks)				0.82 *	---	CS1D-CPU67HA
	5,120 points (7 Racks)	250 Ksteps	448 Kwords (DM: 32 Kwords, EM: 32 Kwords × 13 banks)	Ladder	OK	---	0.82 *	---	CS1D-CPU67H
		60 Ksteps	128 Kwords (DM: 32 Kwords, EM: 32 Kwords × 3 banks)				0.82 *	---	CS1D-CPU65H

**Note:** The interrupt functions cannot be used in a Duplex CPU, Dual I/O Expansion System.

\* NT-AL001 Link Adapters consume an additional 0.15 A each when used.

### CS1D Process-control CPU Units

Name	Specifications			Current consumption (A)		Model
	CPU section	Loop control section		5 V system	26 V system	
	Equivalent to the CS1D-CPU67H	LCB05D	Operation method: Function block method Number of function blocks: 500 blocks max. Minimum operation cycle: 100 ms PID control method: PID with two degrees of freedom (with autotuning function)	1.04	---	CS1D-CPU67P
	Equivalent to the CS1D-CPU65H			1.04	---	CS1D-CPU65P

**Note:** 1. The CS1W-LCB01/05 Loop Control Boards cannot be used in a CS1D-CPU□□H for Duplex CPU, Dual I/O Expansion Systems. If the system requires duplex Loop Control Boards, use the CS1D-CPU□□P Process-control CPU Units. For details, refer to the CS Series PLC-based Process Control Catalog (Cat. No. P051).

2. The interrupt functions cannot be used in a Duplex CPU, Dual I/O Expansion System or Duplex CPU, Single I/O Expansion System.

### CS1D Duplex Unit

Name	Specifications			Current consumption (A)		Model
	Applicable systems	Basic functions	Online Replacement	5 V system	26 V system	
	Duplex CPU, Dual I/O Expansion System only	Duplex CPU Unit processing, error monitoring, and CPU Unit switching when error occurs	Supported	0.41	---	CS1D-DPL02D