TECHNICAL DATA SHEET

DSC / Sur-Gard SG-CPM3 - Replacement Central Processing Module for System III

Description

The **SG-CPM3** is the **Central Processing Module** of the **SG-System III** receiver. It collects system information and routes line card information to the appropriate outputs. It also contains the CPU that controls communications to and from up to 24 receiver modules.

Feature	Information documented in the manual
Model	SG-CPM3
Type	Central Processing Module
Compatible system	SG-System III
Main function	Collects system information and directs line card information to the appropriate outputs
Control capacity	Controls communications to and from up to 24 receiver modules
Interfaces	TCP/IP, parallel printer output, and two RS-232 serial ports
User interface	Large LCD message display and built-in scroll buttons
Printer supervision	Monitors loss of power, offline status, paper out, and other trouble conditions
Automation supervision	RS-232 and TCP/IP communication links can be supervised using heartbeat transmissions
Network addressing	Each SG-CPM3 uses one static IP address
Configuration port	Port 1024 through SG-Systems Console
Operating modes	Active, Manual, and Standby
Redundancy	With two SG-CPM3 modules, one operates in Active/Manual mode and the other in Standby; the standby module automatically takes control if the active module fails
Service / replacement	Fully hot-swappable module: it can be added or removed without powering down the system
Backplane integration	The SG-BP3 supports 1 SG-CPM3 per shelf
Installation	Before inserting the SG-CPM3, connect the ribbon cable from the SG-UIB3 board

Operation and Communications

• **Active Mode:** the primary automation-computer connection is TCP/IP over 10/100 BaseT Ethernet. If it fails, output can fall back to RS-232.

• **Manual Mode:** each event activates the internal buzzer, is shown on the LCD, and requires manual acknowledgement; the event is also sent to the connected printer.

• **Standby Mode:** when two SG-CPM3 modules are installed, the backup module remains in standby and automatically takes control if the active module fails.

Technical Note

The operating manual does not provide dedicated SG-CPM3 values for supply voltage, current consumption, dimensions, weight, or operating temperature. Therefore, no undocumented specifications have been added.

Source: SG-System III Operating Manual. This data sheet was prepared exclusively from information documented for the SG-CPM3 module.