

# SCU (System Control Unit)

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### Details

#### Description

The main controller board (SCU) introduced by Sintai Communication is to provide the interface between the system and the network management system, cooperating with the network management system to manage the various single boards of the equipment, and realizing the mutual communication between the equipment to complete the processing of the corresponding overhead and optical monitoring channels.

#### Function features

Support dual main control board 1+1 redundancy, and support automatic and manual switching of the main control

Support hot-plugging and this action has no impact on the service.

After the failure of dual main controller, the device can continue to work normally, and the new on-line main controller can passively obtain all the configurations of all functional units, and doesn't affect the normal operation of the device.

The original configuration will not be lost after the device is powered down, it will be restored automatically after powered up; when the service boards, fans, etc. are pulled out and replaced with the same type of boards, the main controller will automatically send the configuration of the original boards to the new boards.

Provide main controller board operation status indicator, main and standby status indicators.

Provide command-line based CLI control.

Provide Web-based LCT control.

Provide GUI control platform based on B/S architecture.

Provide NETCONF/YANG open API interface.

Support remote online upgrade

Provide USB interface to support on-site software upgrade, log export and other functions.

#### product specification:

Parameter	Description
SCU	

Parameter	Description
Protection function	Support main controller 1+1 backup
Network management	
	- Support CLI command line management
	- Support Web LCT management
	- Support GUI management platform based on B/S architecture
	- Support OSC-based DCN communication
	- Support NETCONF/YANG open API interface
Environment	
Operating temperature	- Short term: -5??+45?
	- Long term: 0??40?
Storage temperature	-40??+70?
Humidity level	5%?95% (no condensation)