Monitoring the Cisco 2x2 Remote-PHY Solution

Verifying the Cisco RPD Using the LEDs

Verify the following LEDs located inside the Cisco GS7000 node to check if the RPD is operational.
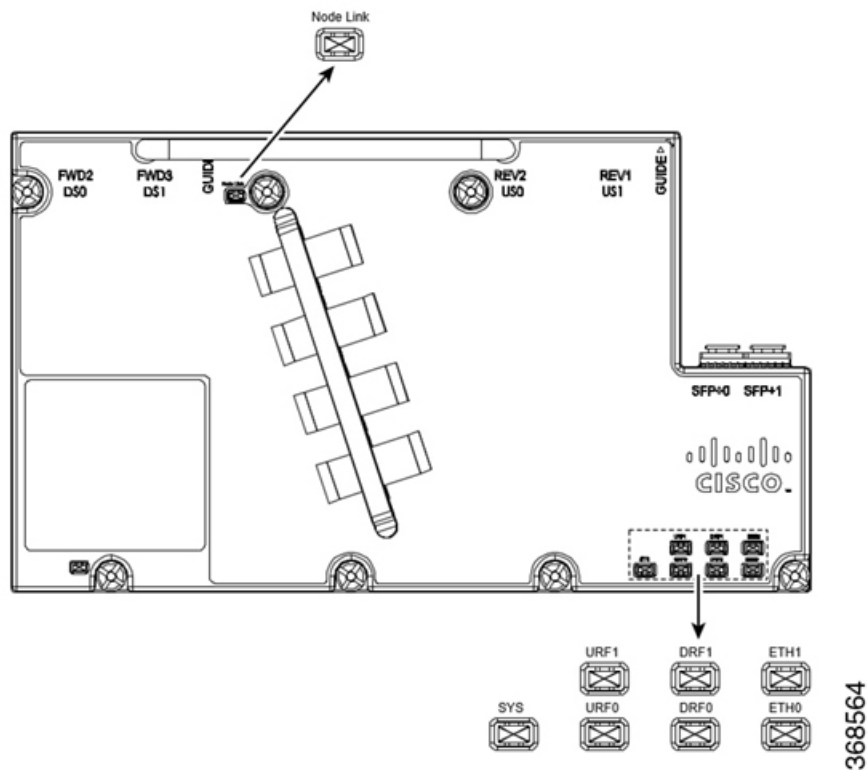

Table 1: SYS LED Status States

LED Pattern or Color	Status	Description
Green – 2 Hz	Power-On initializing	Indicates good power.

LED Pattern or Color	Status	Description
Green – 4 Hz	IP acquired by DHCP, synchronizing and acquiring configuration.	Indicates that remote SSHv2 session is possible.
Green – Steady	System status good – Connection is good.	No faults are detected.
Red – 2 Hz	Connection Fault – No physical connection to CIN or RF Interfaces.	
Red – 4 Hz	Configuration fault - Failed synchronization or failed to receive configuration from the CCAP core.	Wrong DHCP configuration, unreachable hosts, failed authentication.
Red – Steady	System Fault – Device cannot initialize.	Hardware fault.
Amber – various	Warning – RPD operational but imperfect.	Vendor defined LED behavior.

Table 2: ETH0 & ETH1 LED's Status States

LED Pattern or Color	Status	Description
Green – Flash	Per IEEE 802.3x.	Indicates connection state
Unilluminated	Ethernet port failure or port disabled.	Indicates possible port failure or port which has been configured to be disabled.

Table 3: DRF0 & DRF1 LED's Status States

LED Pattern or Color	Status	Description
Green – 2 Hz	Power-On downstream RF initializing.	At least one pilot and/or tone active.
Green – 4 Hz	Port or ports activated.	Awaiting downstream port set configuration.
Green – Steady	Downstream port set configuration obtained.	Downstream ports operational.
Unilluminated	RF port fault or muted.	

Table 4: URF0 & URF1 LED's Status States

LED Pattern or Color	Status	Description
Green – 2 Hz	At least one upstream port configuration received (and a MAP was received for that port), awaiting upstream burst transmissions.	Indicates that the RPD has received and applied at least one upstream port configuration.
Green – 4 Hz	First upstream transmission recognized.	Indicates that at least one CD's burst transmission has been received.
Green – Steady	At least one CM has successfully completed upstream ranging.	Upstream deemed operational.
Unilluminated	Upstream RF port fault or no configuration.	

Verifying the Cisco RPD Using the CLI

To verify the Cisco RPD status and configuration, use the **show cable rpd** command. For more information, see the Cisco CMTS Cable Command Reference guide.