

LED Pattern for Catalysts IW9167 and IW9165

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LED pattern for Catalyst IW9167

The Catalyst IW9167E follows specific LED patterns during the booting process and operational states to indicate system status and signal quality.

Table 1: Definition of booting LED pattern

Events	LED State
Boot loader status sequence: DRAM memory test in progress DRAM memory test OK Board initialization in progress Initialization FLASH file system FLASH memory test OK Initializing Ethernet Ethernet OK Starting AP OS Initialization Successful	Blinking green
When you press the reset button for less than 20 seconds	Blinking red
When you press the reset button for more than 20 seconds	Solid red

Events	LED State
When reset button is released Or When you press the reset button for more than 60 seconds	Blinking green

Once the access point boots up, the Catalyst IW9167E follows these below LED patterns:

Table 2: Definition of URWB OS LED pattern

AP State	LED State
General warning: Insufficient inline power	Cycling through red, green, and amber
Provisioning mode: Fallback	Blinking amber
Provisioning mode: DHCP	Amber
SNR(Signal to Noise Ratio) Excellent (>=25 dB)	Blinking green
SNR Good (15<=X<25 dB)	Fade-in green
SNR Bad (10<=X<15 dB)	Fade-in amber
SNR Unbearable (<10 dB)	Fade-in red

LED pattern for Catalyst IW9165

The Catalyst IW9165E has tri-color red, green, and blue LED. The Catalyst IW9165D has red, green, and amber LED with three brightness levels. The access point is flexible with brightness levels. The controller CLI or GUI controls the brightness with eight different settings.

System LED's in the URWB stack have the patterns to indicate URWB states:

Table 3: LED pattern for URWB states

AP State	LED State
Fallback	Blinking amber or blue
DHCP	Amber or blue

RSSI LED

The Catalyst IW9165 supports a bi-color green and amber LED to show the RF Receive Signal Strength Indicator (RSSI). The RSSI LED does not have different brightness level.

Table 4: RSSI LEDs

Yellow LED	Green LED	Description
Blink	Off	RSSI < - 86 dBm
On	Off	RSSI is - 86 to - 81 dBm
Off	Blink	RSSI is - 81 to - 71 dBm
Off	On	RSSI > - 71 dBm

This table shows the LED functionalities for the Catalyst IW9165E:

Table 5: URWB LED function for the Catalyst IW9165E

LED Function Label	Color/State	Description (Default = off)
System Status	Tricolor RGB	Indicates varies system status
RSSI	Yellow or Green	RSSI < - 86 dBm: yellow - 86 dBm =< RSSI =< - 81 dBM: blinking green RSSI > - 81 dBm: green
WAN GE	Green	Port is up with link
	Blinking Green	Link with activity
	Off	No link or port is Off
LAN GE	Green	Port is up with link
	Blinking Green	Link with activity
	Off	No link or port is Off
Digital IO 1-2	Yellow	Active as digital input or output
	Off	Inactive as digital input or output

This table shows the LED functionalities for the Catalyst IW9165D:

Table 6: URWB LED function for the Catalyst IW9165D

LED Function Label	Color/State	Description (Default = off)
System Status	Tricolor RGA	Indicates varies system status
RSSI	Yellow or Green	RSSI < - 86 dBm: yellow - 86 dBm =< RSSI =< - 81 dBM: blinking green RSSI > - 81 dBm: green