SMART COMFORT FOR THE HILTON CONNECTED ROOM

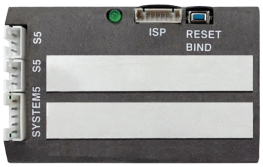
INNCOM PC-502.H Module

Honeywell

INNCOM PC-502.H THERMOSTAT MODULE

The Hilton Connected Room is the future of hospitality – and INNCOM thermostats from Honeywell are how guests connect to comfort.

The PC502.H module makes it easy to integrate comfort into guest rooms. It installs discreetly in the back of the INNCOM e528 thermostat to wirelessly connect with the Hilton Connected Room set-top box.



PC-502.H
Thermostat Module

e528
EMS Thermostat

COMFORT FROM THEIR SMARTPHONE

From faster check-in and room access, to room service and streaming entertainment, guests can manage a whole range of smart conveniences with the Hilton Honors app. And now they can manage their comfort too – with thermostat control directly from the app.

SAVINGS IN EVERY ROOM

INNCOM e-Series thermostats also optimize energy use when the room is empty. We use both motion sensing and door-lock integration to help you identify an empty room, which is much more precise than other methods. With this smart occupancy detection, the e528 thermostat can help increase savings on your guestroom energy use by as much as 25–35%.

INPUT/OUTPUT

Specifications	
RF DATA RATE	250 kbps
ANTENNA TYPE	SMT
INDOOR RANGE	100 ft
OUTDOOR/RF LINE-OF-SIGHT RANGE	1000 ft+
TRANSMIT POWER	50 mW (+17 dBM)
RECEIVE SENSITIVITY	-98 dBm
FREQUENCY BAND	2.4 Ghz
ENCRYPTION	AES-128
PROTOCOL	802.15.4
FREQUENCY CHANNELS	11–26
INPUT VOLTAGE	12 VDC
CURRENT CONSUMPTION	100 mA (Peak)
AMBIENT OPERATING TEMPERATURE	40 degrees C
INDUSTRIAL TEMPERATURE RATING	0–65 degrees C
LED/SWITCH	Reset indication. Blinks when unit is connected to an RF network. Rapid blink during binding association.

HILTON + HONEYWELL: CONNECTED FOR COMFORT

Guest Experiences
Set temperature from the Hilton Honors app

Smart comfort and convenience for guests

Future-proofs your guestrooms for Hilton's new standard of quality

Hilton Savings
e-Series thermostats make energy savings easy and adaptive

Save more: Optional door & motion sensors enable advanced occupancy logic

e528 is fast to install & integrate

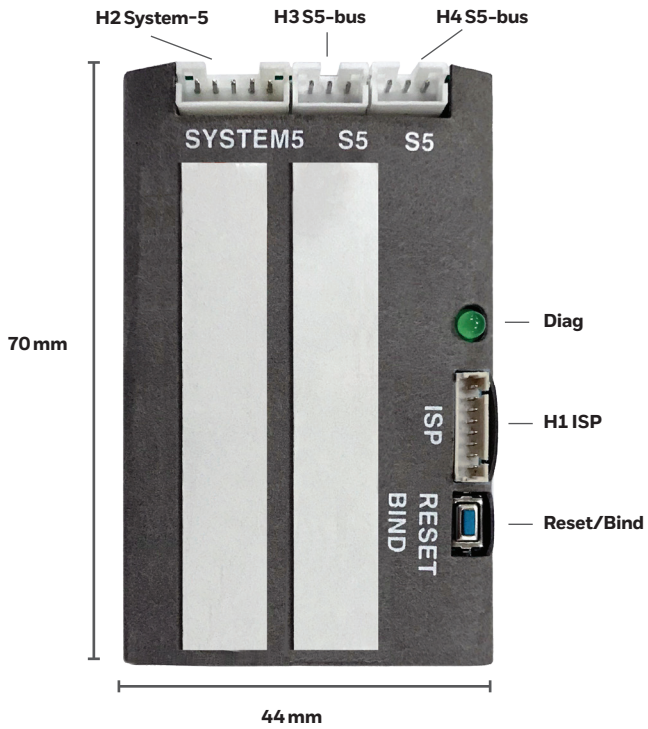
INNCOM Simplicity
PC-502.H module easily installs inside e528 thermostat

Connects wirelessly to Hilton Connected Room set-top box

Converts INNCOM Deep Mesh protocol to Zigbee wireless signal

H1 (In System Programming)				
Pin	**Function**	**Type**	**Min**	**Max**
1-8	Programming	-	-	-
H2 (System 5)				
Pin	**Function**	**Type**	**Min**	**Max**
1-GND	Common	-	-	-
2-12VDC	Input voltage	In	11.75	12.25
3-S5bus	Multi-drop	In/Out		-
4-InOut1	TTL	In/Out		-
5-InOut2	TTL	In/Out		-
H3 /H4 (S5 Bus In/Out)				
Pin	**Function**	**Type**	**Min**	**Max**
1-GND	Common	-	-	-
2-12VDC	Input voltage	In	11.75	12.25
3-S5bus	Multi-drop	In/Out		-

PC-502.H FRONT – CONNECTORS



BINDING THE PC-502.H MODULE TO THE E528 THERMOSTAT

1. Set the address to "152" using the reverse-bind method (use the scroll-down arrow button). The reverse-bind method puts the thermostat into a state where it will listen for a "teach request" sent from the remote device, and then respond with a "teach offer." After pressing the "OFF/AUTO" button in the sequence below, the thermostat LCD will display "bnd" for three minutes, or until a teach request is received. To abort the sequence, press the "°F / °C" button.

   r F
   → A dr → DISPLAY → xxx → OFF/AUTO
   Io

2. Press the "reset" button on the PC-502.H with a paper clip. The PC-502.H will reset with a rapid blink, and the e528.4G thermostat will beep three times. At this point, the e528.4G and the PC-502.H are bound to the same room ID, RF channel, and PAN ID, with the PC-502.H having the P5 address of "152."

BINDING THE PC-502.H MODULE TO THE HILTON EDGE CONTROLLER (HEC)

1. Set the e528.4G thermostat address to "152" as detailed above. Without pressing the "OFF/AUTO" button, press the "°F / °C" button to go back up a level in the UI.

2. Scroll up to "Run > Display > scroll up to 16 > Display". The PC-502.H will now start sending a "beacon request" on the chosen RF channel.

3. Within the HEC UI, go to "CR iot-tester > scroll down to Zigbee Coordinator" and then select "permit join." This will initiate the bind sequence.

4. **After one minute**, the PC-502.H will reset and send out 3 beep commands that are audible in the e528.4G. If the binding period is interrupted by power cycling before the reset has completed, the registry will not be written to correctly.

5. After approximately 2 minutes of an informational exchange between the PC-502.H and the HEC, the bind process is complete.

TWO TYPES OF PC-502 MODULES

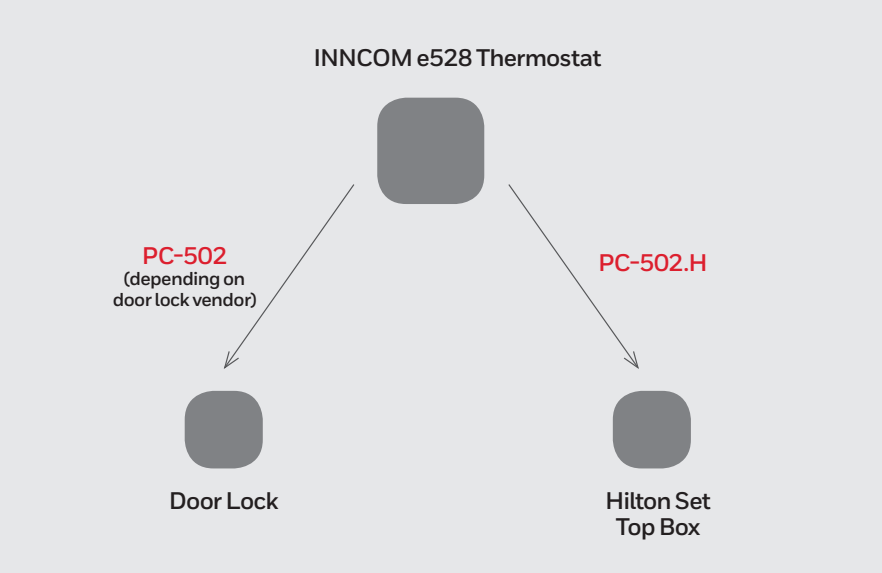
Hilton Specific: PC-502.H

This version of the module has no casing because it installs in the back of an INNCOM thermostat to connect it to a Hilton set-top box. (Hence the "H" in the model name, for Hilton.)

Standard: PC-502

The standard module connects an INNCOM thermostat to third-party devices such as door-lock systems. (This module could also be configured to connect to a Hilton set-top box.)

Both modules can be used together.



GENERAL NOTES

The INNCOM e7 thermostat does not need the Hilton-specific PC-502.H module to connect to the Hilton set-top box. However, the e7 might need a standard PC-502 for door-lock integrations (depending on the door-lock vendor).

Aside from Saflok and SALTO BLE, any other door lock system will require a standard PC-502 module for INNCOM integration.

	e7 Thermostat	e528.4G Thermostat	e527.4G Thermostat	MODEVA Switches with standard PC-502	e529.4G + X47 with standard PC-502
SALTO BLE** Saflok	Supports lock	Supports lock	Supports lock	Supports lock	Supports lock
SALTO RF* TimeLox dormakaba VingCard*	Additional PC-502 for CEL support	Supports lock	Supports lock	Needs standard PC-502 for CEL support	Needs standard PC-502 for CEL support
PC-502.H	N/A	Necessary – S5; located behind thermostat; in-room RF turned OFF	Necessary – S5; remote location; in-room RF turned OFF	Necessary – S5; remote location; in-room RF turned OFF	Necessary – connected by S5 to X47; in-room RF turned ON
Hilton Approved	Yes	Yes	No, as of August 2019	No, as of August 2019	No, as of August 2019
Notes		Thermostat supports both locks	Thermostat supports both locks		

* Compatible, but only if the lock has a PAN ID and a short address that are different from the Hilton Edge Controller. Currently, the HEC uses randomized assignments for both of these. (It's unlikely that both devices will end up with the same PAN ID and short address, but the possibility exists.) If the Hilton client excludes INNCOM PAN IDs from their random selection, this will ensure no conflicts occur.

** When other door lock vendors have an integration with INNCOM, we should be able to provide the same functionality as SALTO BLE.

Home and Building Technologies
Honeywell
12 Clintonville Road
Northford, CT 06472
1-800-543-1999
www.inncom.com

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