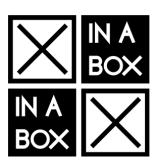
XinaBox Satellite Build Checklist



CW01	Programming
	Switch Positions of the IP01. [B and DCE].
	Download lasts firmware from GitHub
	(https://github.com/xinabox/Satellite-Playground/releases).
	XINABOX firmware is for Ground-Station.
	XSAT firmware is for Satellite.
CR03	and RL13
	The CR03 uses a SMA male antenna.
	The CR13 uses a UFL antenna.
	Connect both antenna to their respective radios before programming.
CR03	Programming
	Switch Positions of the IP01. [A and DCE].
	Download lasts firmware from GitHub
	(https://github.com/xinabox/Satellite-Playground/releases).
	The CR03 is a 4-layer board PCB, ensure that the connector sits snug on the PCB. If
	not use another connector.
CW01	Radio Identifiers
	The Satellite and Ground-Station ID's may not be the same.
	Selection of a valid Ground-Station ID (1-255). This ID must not overlap with other
	participants in the workshop.
	Selection of a valid Satellite ID (1-255). This ID must not overlap with other
	participants in the workshop.
	Captive Portal
	Configure the ground-station CW01 before the satellite CW01.
	Assignment of a unique name to your satellite.
	Assignment of the satellite and ground-station ID's selected.
	Assignment of organization name.
	The satellite captive portal only requires the assignment of the ID's.
	Usage of the Blynk App for viewing data on your mobile device is optional.
	Method of data collection can be either Wi-Fi or IP01. Selection of the IP01 mode will
	require additional assistance from your facilitator.

Syst	tem T	'est	
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☐ Build complete ground-station circuit.	
1 6	
☐ Build complete satellite circuit.	
□ Power up both CW01's.	
☐ Information previously entered will be loaded from me	emory no need to reconfigure.
☐ Once booted the Blue LED on the satellite will start flas	shing when communication takes
place.	

CW01 error codes

Code	Description
E100	SW01 error
	Cause: Faulty connector or sensor.
E101	SL01 error
	Cause: Faulty connector or sensor.
E102	SI01 error
	Cause: Faulty connector or sensor.
E103	SN01 error
	Cause: Faulty connector or sensor.
E200	Blynk Connection Fail
	Cause: Unable to connect to link.xinabox.cc on port 80 or 8442.
E201	Blynk Auth Token error
	Cause: AUTH token invalid or not entered.
E300	MQTT Broker Connection Fail
	Cause: Unable to connect to mqtt.xinabox.cc on port 80 or 1883.
E301	MQTT Broker Publish Fail
	Cause: Poor internet connection or WiFi disconnected on CW01.
E400	Captive Portal Index Invalid
	Cause: Entered Index is longer than 20 characters, index is not alpha-numeric or
	contains spaces.
E401	Captive Portal Longitude Invalid
	Cause: Format of longitude is not in degrees.
E402	Captive Portal Latitude Invalid
	Cause: Format of longitude is not in degrees.
E403	Captive Portal Altitude Invalid
	Cause: Altitude unit (e.g ft) is added to the input. Altitude must be given in meters.