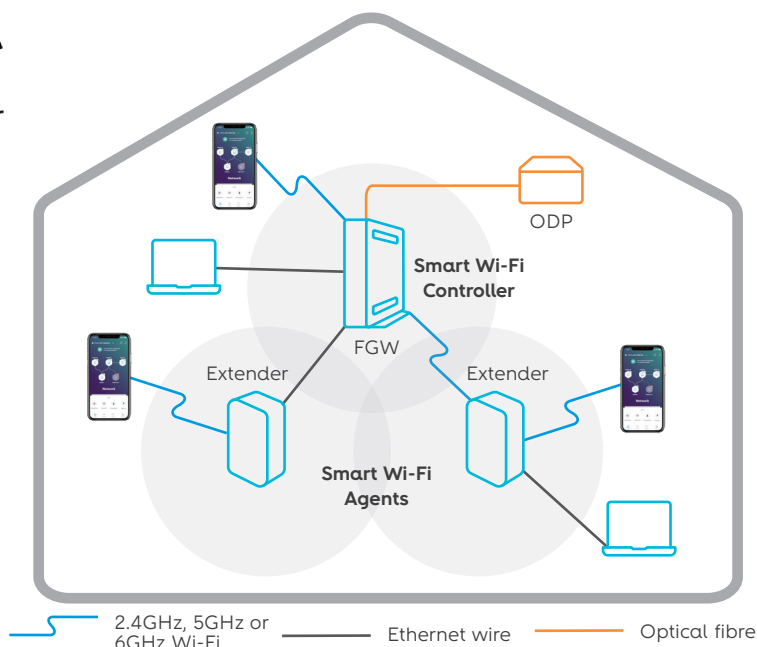# Wi-Fi 7
Extender

Description

The Wi-Fi 7 Extender is part of Altice Labs' portfolio and the ideal solution for those who want to ensure optimal coverage and consistent Wi-Fi performance within indoor scenarios. As a component of Altice Labs' Smart Mesh Wi-Fi solution, this device interoperates seamlessly as a mesh solution compliant with Wi-Fi EasyMesh™ from Wi-Fi Alliance®, granting optimal QoS and maximizing throughput performance. The equipment can be easily installed and managed through our mobile application (Android & iOS) and cloud-based web portal.

This device's architecture allows wireless and wireline connections to link Fiber Gateways and

Extenders. Two built-in RJ-45 Ethernet interfaces for cable connections grant ultra-fast Wi-Fi access for Internet applications. A valuable set of built-in LEDs provides fast and pertinent information to the user.

This equipment includes a high-performance Wi-Fi technology that supports tri-band concurrent operation, complying with 802.11a/b/g/n/ax/be standards, operating simultaneously on the 2.4GHz, 5GHz and 6GHz frequency bands. This ultimate and low-power consumption device also delivers embedded IoT interfacing complying with Thread, Bluetooth, Zigbee and Matter interfaces.

2.4GHz, 5GHz or 6GHz Wi-Fi   Ethernet wire   Optical fibre

CONNECTIVITY

MODEL	PORTS		WIRELESS				Thread	Matter	BLE	Zigbee
	Ethernet		Wi-Fi 7							
	1GE	2.5GE	Band	2.4GHz	5GHz	6GHz				
D27GBHP	1	1	Antennas	2x2	4x4	4x4	√	√	√	√
			EIRP (dBm) (ETSI/FCC)	≤+20 / ≤+20	≤+30 / ≤+34	≤+23 / ≤+30				

Wi-Fi 7 Extender

Features

- Compliant with Wi-Fi ®Alliance EasyMesh™ Multi-AP specification;
- Tri-band Wi-Fi 7 compliance;
- Optimal QoS and throughput performance;
- Explores IoT business opportunities by exposing Bluetooth, Thread, Zigbee and Matter standardized interfaces;
- Wireless and wireline connections to link FGWs and Extenders.

Product Specifications

Antenna Configuration	Tri-band concurrent 2x2 (2.4GHz) + 4x4 (5GHz) + 4x4 (6GHz)
Transmit power	Max EIRP 2.4 GHz up to +20dBm (ETSI) or up to +20 (FCC) Max EIRP 5GHz up to +30dBm (ETSI) or up to +34 (FCC) Max EIRP 6GHz up to +23dBm (ETSI) or up to +30 (FCC)
Wi-Fi Support	802.11b/g/n/ax/be @ 2.4GHz + 802.11a/n/ac/ax/be @ 5GHz + 802.11ax/be @ 6GHz
Security / Encryption	WPA, WPA2, WPA3, WPS
Thread	Open source mesh network IP-based protocol
Matter	Open source IP-based connectivity standard
Bluetooth Low Energy	Point-to-point, broadcast and mesh topologies
Zigbee	IoT
Multi-AP Wi-Fi Alliance® Compliance	EasyMesh™ Wi-Fi Alliance® multiple AP specification
Mobile App Management	Yes
Cloud-Based Remote Management	Yes
Environment	Temperature Range: +5ºC to +40ºC Relative Humidity: 5% to 95%
EMC	ETSI EN 301489-1 and EN 301489-17
Safety	IEC/EN 62368-1
Radio	ETSI 300 328 and EN 301893
Ethernet	1x10/100/1000Base-T and 1x1/2.5GBase-T
Physical Buttons	Power (ON/OFF); Reset (CPU); WPS
LEDs	Power; Wi-Fi status; WPS; Ethernet Link/Activity
Equipment Size (HxWxD)	[174.3 x 71.6 (base) x 170]mm / [6.9 x 2.8 (base) x 6.7]"
Net Weight	500g / 1.10lb
Power Supply	Primary: 230VAC, 50Hz or 115VAC, 60Hz Secondary: 12VDC/2A ± 15%