

Smart Apartment Block MK9 3PW

Proposal for installation of a WiFi network at MK9 3PW.

Objective: to provide internet access using a data sim to supply wifi to all floors of the apartment building. This wifi backbone will provide access points for Smart Devices such as Video Cameras and Locks.

Short bill of materials

- Internet Gateway (located in storage cupboard in Lobby)
 - TP-Link Archer NX200 (5G router, nano-SIM)
 - Total Gateways = **1 * TP-Link Archer NX200**
- Wireless Access Points (Ps) (3 total)
 - 3 × TP-Link Deco Mesh (stairwell; 3 units)
 - Total APs = **3 * TP-Link Deco Mess**
- Internet Provider
 - Data only sim with minimum 100GB data package
 - Speed greater than 50BMs
- Camera hardware
 - See the document [IP Camera Proposal](#) Proposal
- Cables & accessories
 - Total installation will be WiFi
 - Access Points (Extenders) will require USB (phone chargers) which will be wired through existing light fixtures
 - Total USB Power Supplies = **3 USB Power Supplies**
- 5G Data Quality
 - External antennas or signal booster for 5G if reception is poor

Quantities summary

Item	URL	Cost GBP
GateWay modem	TP-Link Archer NX200 AX1800Mbs Sim WiFi Router	200
Access Points	TP-Link Deco X60(3-pack) AX5400Mbps – Qty 5 Packs	600
USB Power Supply	USB 5V DV Power Supply – Qty 3	120
	Total	920