

# XAC Automation Corporation

4F, NO. 30, INDUSTRY E. RD. IX, SCIENCE-BASED INDUSTRIAL PARK, HSINCHU, TAIWAN

## DFS client device channel plan and software operational declaration

Date: 2020/10/26

We, **XAC AUTOMATION CORP.**, declare that the device, FCC ID: **MQT-AT100R6** Model Name: **xCL\_AT-100-R6-18U**, does not have Ad Hoc on “non-US frequencies” and/or on “DFS frequencies”. Also, the client software and associated drivers will not initiate any transmission on DFS frequencies without initiation by a master. This includes restriction on transmissions for beacons and support for ad-hoc peer-to-peer modes.

Below is the channel / frequency plan for the device

| CH              | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     | 11     |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Frequency (MHz) | 2412   | 2417   | 2422   | 2427   | 2432   | 2437   | 2442   | 2447   | 2452   | 2457   | 2462   |
| Scan Type       | Active | Active | Active | Active | Active | Active | Active | Active | Active | Active | Active |

### 5G band 1

| CH              | 36     | 38     | 40     | 44     | 46     | 48     |  |  |  |  |  |
|-----------------|--------|--------|--------|--------|--------|--------|--|--|--|--|--|
| Frequency (MHz) | 5180   | 5190   | 5200   | 5220   | 5230   | 5240   |  |  |  |  |  |
| Scan Type       | Active | Active | Active | Active | Active | Active |  |  |  |  |  |

### 5G band 2

| CH              | 52      | 54      | 56      | 60      | 62      | 64      |  |  |  |  |  |
|-----------------|---------|---------|---------|---------|---------|---------|--|--|--|--|--|
| Frequency (MHz) | 5260    | 5270    | 5280    | 5300    | 5310    | 5320    |  |  |  |  |  |
| Scan Type       | Passive | Passive | Passive | Passive | Passive | Passive |  |  |  |  |  |

### 5G band 3

| CH              | 100     | 102     | 104     | 108     | 110     | 112     | 116     | 118     | 120     |  |  |
|-----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--|--|
| Frequency (MHz) | 5500    | 5510    | 5520    | 5540    | 5550    | 5560    | 5580    | 5590    | 5600    |  |  |
| Scan Type       | Passive | Passive | Passive | Passive | Passive | Passive | Passive | Passive | Passive |  |  |
| CH              | 124     | 126     | 128     | 132     | 134     | 136     | 140     | 142     | 144     |  |  |
| Frequency (MHz) | 5620    | 5630    | 5640    | 5660    | 5670    | 5680    | 5700    | 5710    | 5720    |  |  |
| Scan Type       | Passive | Passive | Passive | Passive | Passive | Passive | Passive | Passive | Passive |  |  |

### 5G band 4

| CH              | 149    | 151    | 153    | 157    | 159    | 161    | 165    |  |  |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--|--|
| Frequency (MHz) | 5745   | 5755   | 5765   | 5785   | 5795   | 5805   | 5825   |  |  |
| Scan Type       | Active | Active | Active | Active | Active | Active | Active |  |  |

Also, on DFS channels, the WLAN driver in the device operates under the control of an AP at all times, except when in ad-hoc mode on US non-DFS channels. The device passively scans DFS frequencies until a master device is detected. The control of this functionality is not accessible to anyone under any conditions. Furthermore, the firmware is protected by a special signature and CRC checksum. Signature and CRC checksum will be calculated and verified before

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firmware upgrade. Unauthorized modification to firmware will lead to the failure of verification and thus firmware upgrade will not be allowed.

Sincerely yours,

Sincerely yours,



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Eric Hong/Section Manager

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