



Wi-Fi 6E Tri-Band Omni Array Antenna 2.4-2.484 GHZ, 4.9 - 7.125 GHz

The OCX24688-FNM is a 2.4-2.484 / 4.9-7.125 GHz tri-band omnidirectional array antenna especially designed to complement interior or exterior mounted Wi-Fi 6E wireless network systems.

The integrated male N-connector is embedded in the antenna base cap for direct AP mounting. Sealing permits either upright or inverted orientation in outdoor locations. The antenna may also be pole-mounted when separation from the AP is required for optimal positioning.

#### **FEATURES AND BENEFITS**

- Tri-Band Wi-Fi coverage including legacy Wi-Fi, Wi-Fi 6, Wi-Fi 6E and Wi-Fi 7
- IP67 outdoor rated
- Direct mounting to access points or pole/mast mountable
- Suitable for upright or inverted orientation in both indoor and outdoor locations

#### **APPLICATIONS**

- WLAN
- Wi-Fi Wi-Fi 7 (802.11be), Wi-Fi 6E (802.11ax), Wi-Fi 6 (802.11ax), Wi-Fi 5 (802.11ac), Wi-Fi 4 (802.11n), 802.11b/g
- Automation and control
- · Outdoor and indoor rated

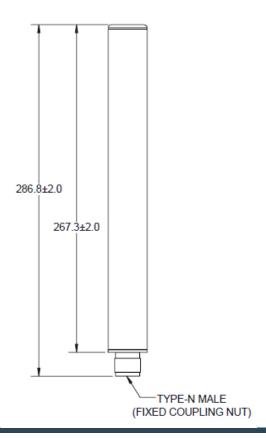
| ELECTRICAL SPECIFICATION         |                       |           |           |           |  |  |
|----------------------------------|-----------------------|-----------|-----------|-----------|--|--|
| Operating Frequency (MHz)        | 2400-2484             | 4900-4990 | 5170-5330 | 5490-7125 |  |  |
| VSWR - Average                   | <2.5:1                | <2.2:1    | <2.0:1    | <2.0:1    |  |  |
| Peak Gain - Max (dBi)            | 5.0                   | 5.5       | 6.7       | 7         |  |  |
| Average Gain, Near Horizon (dBi) | 3.5 ± 0.5             | 5.0 ± 1.0 | 5.0 ± 1.0 | 5.5 ± 1.0 |  |  |
| Average 3 dB Beamwidth (°)       | 37                    | 23        | 22        | 20        |  |  |
| Input Max Power (W)              | 2                     |           |           |           |  |  |
| Polarization                     | Linear, Vertical      |           |           |           |  |  |
| Azimuth Beamwidth (All Models)   | 360°, Omnidirectional |           |           |           |  |  |
| Nominal Impedance (Ohms)         | 50                    |           |           |           |  |  |

| MECHANICAL SPECIFICATION                       |                           |  |  |  |
|--|---------------------------|--|--|--|
| Dimensions - height x circumference - mm (in.) | 287 x 32Ø (11.3 x 1.26)   |  |  |  |
| Weight - g (lbs.)                              | 137 (0.3)                 |  |  |  |
| Radome   | Polycarbonate, UV (White) |  |  |  |
| Cap and Base                                   | ASA, UV                   |  |  |  |

| ENVIRONMENTAL SPECIFICATION     |                              |  |  |  |
|---------------------------------|------------------------------|--|--|--|
| Operating Temperature – °C (°F) | -40 to +70°C (-40 to +158°F) |  |  |  |
| Storage Temperature - °C (°F)   | -40 to +85°C (-40 to +185°F) |  |  |  |
| Ingress Protection (IP Rating)  | IP67                         |  |  |  |
| Material Substance Compliance   | RoHS Compliant<br>CE & UKCA  |  |  |  |
| Wind Loading (mph)              | 165                          |  |  |  |

# **MECHANICAL DRAWINGS**





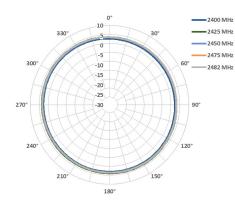
#### **RADIATION PATTERNS**

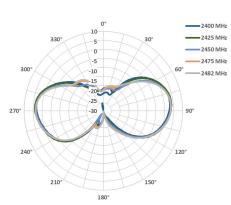
#### Radiation Patterns at 2.4 - 2.484 GHz

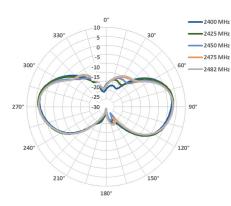
# **Azimuth Plane**

Phi 0° Plane

Phi 90° Plane





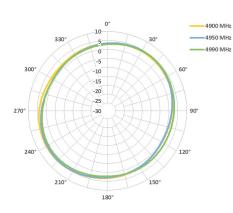


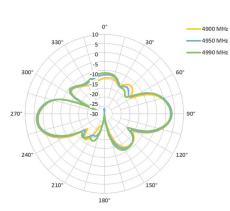
Radiation Patterns at 4.9 - 4.99 GHz

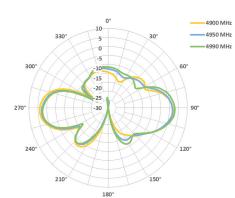
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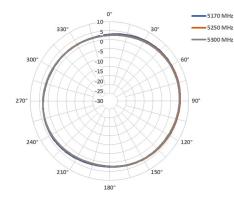


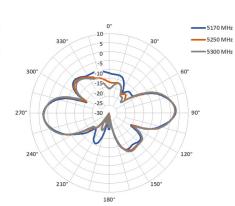
Radiation Patterns at 5.17 - 5.33 GHz

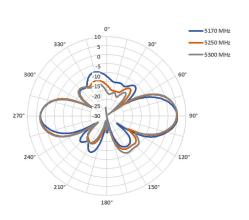
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Phi 90° Plane





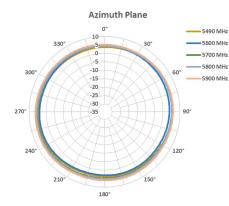


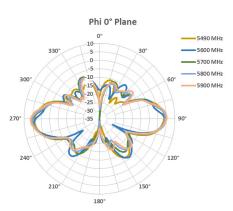
### Radiation Patterns at 5.49 - 5.9 GHz

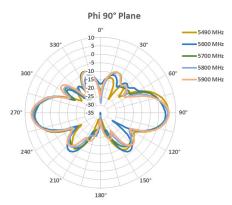
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Phi 90° Plane





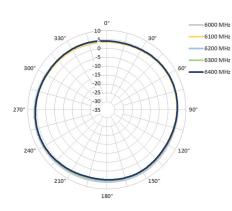


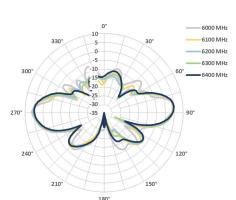
Radiation Patterns at 6.0 - 6.4 GHz

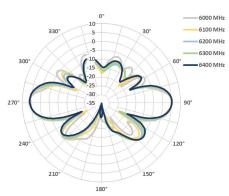
**Azimuth Plane** 

Phi 0° Plane

Phi 90° Plane





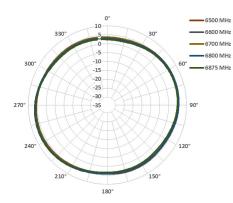


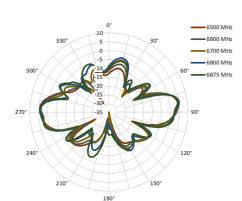
Radiation Patterns at 6.5 - 7.125 GHz

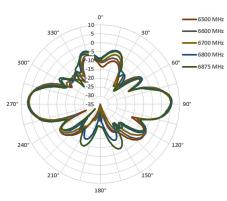
**Azimuth Plane** 

Phi 0° Plane

Phi 90° Plane

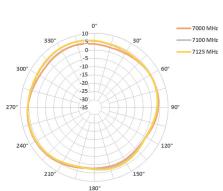




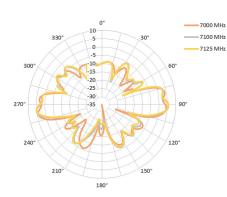


### Radiation Patterns at 7.0 - 7.125 GHz

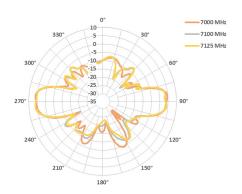
# **Azimuth Plane**



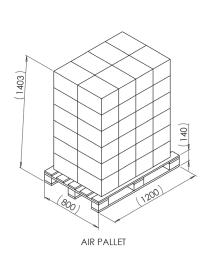
Phi 0° Plane

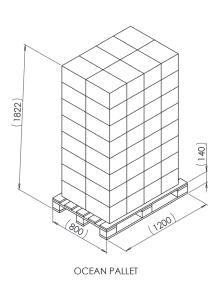


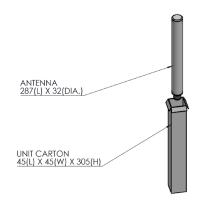
Phi 90° Plane



## **PACKING INFORMATION**









| PACKAGED DIMENSIONS            | Unit Carton  | MASTER CARTON | AIR PALLET   | OCEAN PALLET |
|--------------------------------|--------------|---------------|--------------|--------------|
| Number of Antennas             | 1            | 16            | 768          | 960          |
| Height mm(in)                  | 305 (12)     | 210 (8.27)    | 1466 (57.24) | 1791 (69.96) |
| Length mm(in)                  | 45 (1.77)    | 355 (13.98)   | 1200 (47.24) | 1200 (47.24) |
| Width mm(in)                   | 45 (1.77)    | 255 (10.04)   | 800 (31.50)  | 800 (31.50)  |
| Est. Shipping Weight kg (lbs.) | 0.125 (0.28) | 2.5 (5.51)    | 108 (238.10) | 132 (291.01) |

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