

Part No. ANT-SAMPLEBOX-IOT

IoT Antenna Sample Box

Supports: LTE-M, NB-IoT, 5G, NTN, LoRa, ISM, DECT NR+, GNSS, GPS, Wi-Fi 6/7, BLE, UWB



The KYOCERA AVX IoT Antenna Sample Box PN ANT-SAMPLEBOX-IOT offers a comprehensive selection of 50 cutting-edge antennas, tailored to meet the diverse needs of IoT applications. With antennas supporting technologies like NB-IoT, BLE, GNSS, UWB, and the latest advancements in NTN and DECT NR+, this sample box empowers designers to test and explore multiple configurations. Each antenna has been meticulously designed to deliver optimal performance across a range of frequencies, ensuring reliability and precision for various IoT applications, including smart homes, asset tracking, industrial automation, and more.

IOT ANTENNA SAMPLE BOX:

LTE Cat-M / NB-IoT / 5G NTN,
2.4 GHz, GNSS, L1+L5, GPS,
LTE Cat-M / NB-IoT/ 4G/ 5G NTN,
Wi-Fi 2.4/5/6 GHz, UWB,
S-Band & DECT NR+,
ISM 868/ 915 MHz/ LoRa

Whether you are developing solutions for short-range connectivity with BLE or long-distance communication through satellite-based NTN, this sample box provides the versatility and flexibility required to address unique design challenges. The range of products included ensures compatibility across a variety of use cases, enabling engineers and designers to assess how different antenna combinations perform under specific conditions and for varied requirements. With easy access to a diverse range of technologies, this sample box simplifies the prototyping process, helping innovators accelerate their development timelines and optimize the performance of their IoT solutions.

KEY BENEFITS

Greater Flexibility with Unique Form Factors

KYOCERA AVX technology helps you deliver more advanced ergonomic designs without adverse impact on product performance.

Quicker Time-to-Market

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Environmental Compliance

Comply with latest RoHS requirements

APPLICATIONS

- Embedded designs
- Wearables
- Tablets
- IoT
- Handheld devices
- Telematics
- Asset Tracking
- Healthcare (FDA Class I)
- M2M,
- Industrial devices
- Smart Grid

Antenna Resources

EVBs, Application Notes, Online Tools, Simulation and Design files

KYOCERA AVX offers a comprehensive suite of online resources to support antenna integration and validation. These include Evaluation Boards (EVBs) for testing and development, detailed application notes for guidance, intuitive online tools, and downloadable design and simulation files to streamline the development process.

Global Operations & Design Support

USA, France, Taiwan, China and South Korea

From the initial concept to large-scale production, KYOCERA AVX's cutting-edge global design centers assist customers, providing comprehensive support that involves validation and pre-certification testing.

KYOCERA AVX Embedded Antennas

KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs

LTE Cat-M / NB-IoT / 5G / NTN Antennas

Part Number	Quantity/box	Description
P822601 	4	5G/LTE/LPWA/NTN FR4 Antenna
P822603 	4	5G/LTE/LPWA FR4 Antenna, corner/side ground
P622301 	4	LTE-M/NB-IoT/LPWA FR4 Antenna, feed in the middle
1004795 	4	5G/LTE/LPWA/NTN/GNSS FR4 Antenna
1002436 	4	LTE/LPWA Vertical FR4 Antenna
1002089 	2	LTE/LPWA + NTN FR4 Antenna with SMA Connector
1002289 	2	LTE/LPWA/cellular + NTN FPC Antenna
1005392F0 	2	Dual-feed 5G/4G & Wi-Fi Dual Band FPC Antenna, Ground Independent
9001815F0 	2	5G/4G/LPWA FPC Antenna, Ground Independent

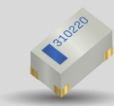
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ISM 868/915 MHz / LoRa

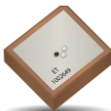
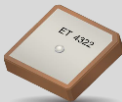
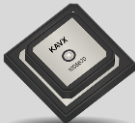
Part Number	Quantity/box	Description
1002427 	4	ISM & Bluetooth Stamp Metal Embedded SMT Antenna
1001011 	4	ISM FR4 Antenna
9002133 	4	ISM Chip antenna
M620720 	4	ISM 868 & 915 MHz Embedded Ceramic Antenna
1002289 	2	ISM / LoRa FPC Antenna
1002228 	4	ISM Dual-feed Vertical FR4 Antenna
1002232 	4	ISM & WLAN FR4 Embedded Antenna

S-Band / DECT NR+

Part Number	Quantity/box	Description
M310220 	4	S-Band Ceramic Antenna
1001013 	4	DECT NR+ FR4 Antenna

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GNSS, GPS, L1 + L5

Part Number	Quantity/box	Description
9002137 	4	GNSS or L1 / L2 / L5 / L6 Ultra-Small Chip Antenna
1002649 	2	GNSS Patch Dual Feed Antenna (25 x 25 x 6.7)
1004322 	2	GNSS Patch Antenna (18 x 18 x 4.7)
9001157 	2	GPS / GLONASS SMT Patch Antenna (18 x 18 x 4)
1005620 	2	GPS L1/L5 Ceramic Patch Antenna (25 x 25 x 4)
1001044 	2	GPS Ceramic Patch Antenna (13 x 13 x 4)

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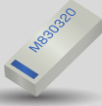
GNSS, GPS, L1 + L5

Part Number	Quantity/box	Description
M830120 	4	GNSS or GPS L1/L2/L5/L6 Ceramic Antenna
1001011 	4	GNSS FR4 (On/Off Ground) Antenna
1004138 	2	GPS Active Off-board Ceramic Patch Antenna
9003160 	2	GPS Slim Ceramic Patch Antenna (18 x 18 x 2)
9000440F0 	2	GNSS FPC Antenna

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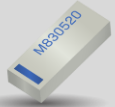
2.4 GHz, BLE, ISM

Part Number	Quantity/box	Description
1001013 	4	2.4 GHz FR4 (On/Off Ground) Antenna
1001312 	4	2.4 GHz Ceramic Antenna
9001978 	4	2.4 GHz Ultra-Small Chip Antenna
1005801 	4	2.4 GHz Chip Antenna – Corner Placement
M830320 	4	2.4 GHz Ceramic Antenna
M310220 	4	2.4 GHz Ceramic Antenna

KYOCERA AVX Embedded Antennas

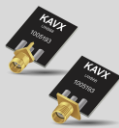
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Wi-Fi 2.4 / 5 / 6 GHz

Part Number	Quantity/box	Description
W3 Family 	2	Wi-Fi FPC/PCB Antenna
1001932PT 	2	Wi-Fi 6E/7 Tunable PCB Antenna
W4 Family 	2	Wi-Fi 6E/7 FPC/PCB Antenna – Side Cable
9000352F0 	2	Wi-Fi 6E/7 FPC Antenna for Metal Surfaces
1000146 	4	Wi-Fi 6E/7 Stamped Metal Antenna
9001978 	4	Wi-Fi Dual-Band Ultra-Small Chip Antenna
M830520 	4	Wi-Fi Ceramic Antenna

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UWB

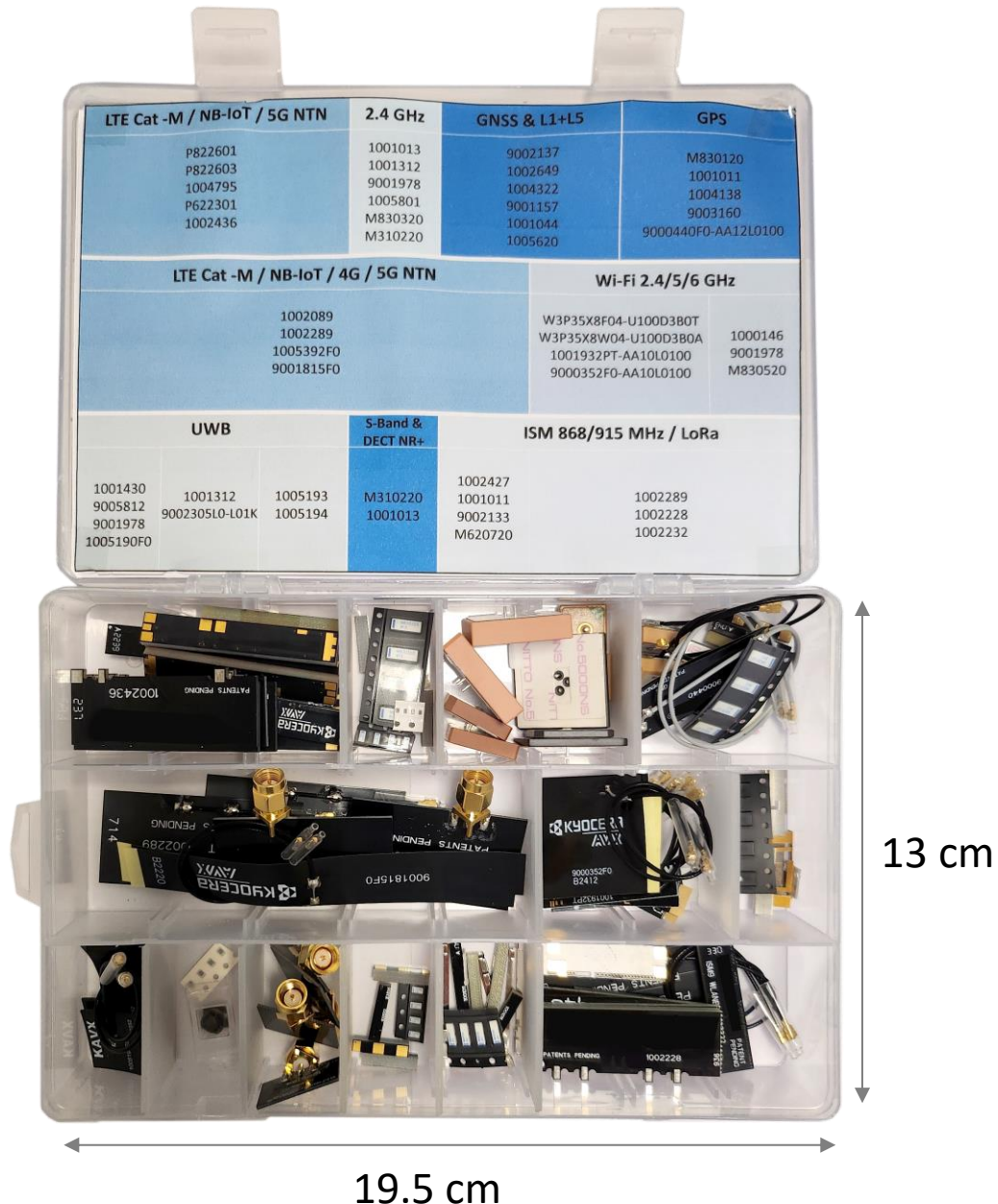
Part Number	Quality/box	Description
1001430 	4	UWB Stamped Metal Antenna
9005812 	4	UWB Chip Antenna - Corner Placement
9001978 	4	UWB Ultra-Small Chip Antenna
1005190F0 	2	UWB FPC Embedded Antenna
1001312 	4	UWB Ceramic Antenna
9002305L0-L01K 	1	UWB LDS Antenna – “Tulip”
1005193 	2	UWB PCB Antenna with SMA Connector
1005194 	2	UWB PCB Antenna with SMA Connector

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Mechanical Dimensions

Typical dimensions of the box



Box Height: 3.5 cm