

RFID ANTENNAS

CX ANTENNA LR

PRODUCT DESCRIPTION



Optimized for industrial and outdoor workplaces, the circularly polarised BLUEBOX UHF CX Antenna LR is a powerful, hard-wearing UHF device with a compact 250 mm square footprint.

Just 14 mm thick, this ultra-low profile UHF antenna offers a solution for a variety of applications. It perfectly complements on of our BLUEBOX RFID readers and writers for a reliable and constant implementation of RFID technologies.

Rated IP67 for permanent outdoor and indoor use and built to iDTRONIC's high standard for quality and robustness, the CX Antenna LR creates a new benchmark for multi-purpose industrial grade RFID antennas.

TECHNICAL DATA

| ELECTRICAL SPECIFICATIONS | | MECHANICAL SPECIFICATIONS | |
|---------------------------|--|---------------------------|---------------------------|
| Frequency Range | 864 – 869 MHz (EU) 902 – 928 MHz (US) | Dimensions | 250 × 250 × 14 mm |
| Polarization | RHCP (Right Hand Circular Polarized) | Weight | 0.75 kg |
| Antenna Gain | 8 dBic | Radome Material | UV-Resistant ABS |
| Beamwidth | 68° in both planes | Protection Class | IP67 |
| Typical VSWR | 1.3 | Operating Temperature | -20° to +55 °C |
| Front to back Ratio | 20 dB | Storage Temperature | -30° to +65 °C |
| Axial Ratio | 2 dB typical; 4 dB Max | Mounting | Flush or VESA Mount |
| Nominal Impedance | 50 Ω | Connector type / Position | SMA female side connector |
| Anti-static Protection | Yes | | |
| Max. Input Power | 6 W | | |

ORDER CODES

| VERSIONS | ORDER CODES |
|--------------------------------------|----------------|
| CX Antenna LR - ETSI (865 – 867 MHz) | R-IN-UHF-9135U |
| CX Antenna LR - FCC (902 – 928 MHz) | R-IN-UHF-9136U |

RFID ANTENNAS

MR ANTENNA



PRODUCT DESCRIPTION

iDTRONIC's Mid-Range BLUEBOX Antenna UHF is a high-performance device which can be used in combination with our BLUEBOX UHF Controllers.

It enables the UHF BLUEBOX Mid-Range reading of up to 2 meters. Through its circular polarized setting, the user will be able to read out the tags in multiple 3D orientations.

Thanks to its specification, small dimensions and robust housing, this UHF Mid-Range Antenna can be used for Forklift or Access Control applications.

TECHNICAL DATA

| ELECTRICAL SPECIFICATIONS | | MECHANICAL SPECIFICATIONS | |
|---------------------------|--|---------------------------|---------------------------|
| Frequency Range | 864 – 869 MHz (EU) 902 – 928 MHz (US) | Dimensions | 150 × 150 × 14 mm |
| Polarization | RHCP (Right Hand Circular Polarized) | Weight | 0.25 kg |
| Antenna Gain | 5.5 dBiC typical | Radome Material | UV-Resistant ABS |
| Beamwidth | 115° in both planes | Protection Class | IP68 |
| Typical VSWR | 1.4 | Operating Temperature | -40° to +65 °C |
| Front to back Ratio | -10 dB | Storage Temperature | -40° to +65 °C |
| Axial Ratio | 2 dB typical | Mounting | Flush or VESA Mount |
| Nominal Impedance | 50 Ω | Connector type / Position | SMA female side connector |
| Anti-static Protection | DC Grounded | | |
| Max. Input Power | 3 W | | |

ORDER CODE

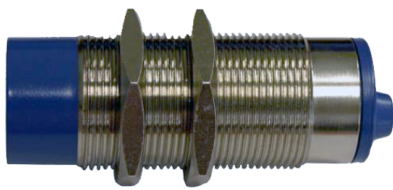
| VERSION | ORDER CODE |
|------------|------------|
| MR Antenna | R-T7-A5020 |

RFID ANTENNAS

CYLINDRICAL ANTENNA M30

PRODUCT DESCRIPTION

The BLUEBOX M30 UHF Antenna is a fixed and compact UHF RFID antenna for industrial automation processes.



In combination with RFID readers the M30 UHF Cylindrical Antenna can achieve reading distances of up to 20 centimeters within industrial environments.

Typically this device will be used within the industrial automation at production lines. Another wide spread applications are the data collection and access control.

The device comes with a TNC FEMALE antenna connector. This RFID component allows a flexible and fast integration into many existing applications with its easy to install cylindrical M30 housing.

TECHNICAL DATA

| ELECTRICAL SPECIFICATIONS | | MECHANICAL SPECIFICATIONS | |
|---------------------------|--|---------------------------|---|
| Frequency Range | 864 – 869 MHz (EU) 902 – 928 MHz (US) | Dimensions | M30 × 1.5 × 90.15 mm M30 × 1.5 × 52 mm (90° Version) |
| Polarization | RHCP (Right Hand Circular Polarized) | Weight | 0.2 kg |
| Antenna Gain | -10 dBiC typical | Radome Material | Nickelled Brass + PC |
| Typical VSWR | 2.0 : 1 max | Protection Class | IP65 |
| Front to back Ratio | 1 dB max | Connector type | TNC female |
| Axial Ratio | 3 dB max | | |
| Nominal Impedance | 50 Ω | | |

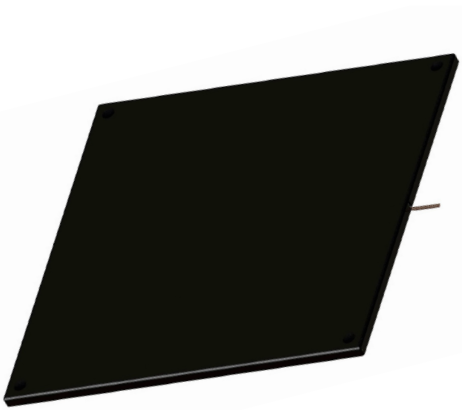
ORDER CODES

| VERSIONS | ORDER CODES |
|-----------------------------------|----------------|
| ETSI (864 – 870 MHz) | |
| M30 9131U (ETSI) - Size: 90.15 mm | R-IN-UHF-9131U |
| M30 9132U (ETSI) - Size: 52 mm | R-IN-UHF-9132U |
| FCC (913.5 – 919.5 MHz) | |
| M30 9133U (FCC) - Size: 90.15 mm | R-IN-UHF-9133U |
| M30 9134U (FCC) - Size: 52 mm | R-IN-UHF-9134U |

RFID ANTENNAS

SHELF ANTENNA

PRODUCT DESCRIPTION



Part of our SlimLine range of antennas, the shelf antenna with its innovative 'Array-Ability' design offers a highly scalable and customised antenna solution for a wide range of RFID deployments.

At just 8.5 mm thick, the shelf antenna combines ultra-low profile and intelligent scalable design, with the performance of a circular polarised UHF antenna.

With a highly durable Kydex radome and flexible easy mounting options, including the use of innovative 'Array-Ability' feet, the shelf antenna is ideal for existing shelving systems, providing real-time asset & inventory management – quite simply the smartest antenna on the shelf.

TECHNICAL DATA

| ELECTRICAL SPECIFICATIONS | | MECHANICAL SPECIFICATIONS | |
|---------------------------|--|---------------------------|--|
| Frequency Range | 864 – 869 MHz (EU) 902 – 928 MHz (US) | Dimensions | 300 × 300 × 8.5 mm |
| Polarization | RHCP (Right Hand Circular Polarized) | Weight | 0.75 kg |
| Antenna Gain | 5 dBic (ETSI) / 6 dBic (FCC) | Radome Material | Fire retardant Kydex |
| Beamwidth | 65° in vertical, 65° in horizontal | Protection Class | IP54 |
| Typical VSWR | < 1.4:1 | Mounting | Integrated mounting guides |
| Front to back Ratio | 22 dB (ETSI) / 17 dB (FCC) | Connector type | SMA female side fly lead (400 mm / 15 ¾ in.) Custom lengths available for array options |
| Axial Ratio | 2 db (ETSI) / 3 dB; max: 4 dB (FCC) | | |
| Nominal Impedance | 50 Ω | | |
| Anti-static Protection | Yes | | |
| Max. Input Power | 6 W | | |

ORDER CODES

| VERSIONS | ORDER CODES |
|----------------------|------------------|
| ETSI (865 – 867 MHz) | R-T7-A7030C-ETSI |
| FCC (902 – 928 MHz) | R-T7-A7030C-FCC |

RFID ANTENNAS

DOOR FRAME ANTENNA



PRODUCT DESCRIPTION

The iDTRONIC UHF Door Frame Antenna is a unique, ultra-low profile linear flat panel UHF antenna. The durable door frame antenna easily transforms existing doorways into an RFID portal or read point.

At just 8 mm in thickness and with integrated mounting holes requiring no extra frames and mounting kits for installation, the door frame antenna is a portal antenna solution with absolutely no compromise on spatial dimensions.

Versatile and good-looking, the door frame antenna works as a left, right and/ or top antenna. When combined with a ground antenna,, the door frame antenna makes a high performance, cost effective RFID portal a reality.

TECHNICAL DATA

| ELECTRICAL SPECIFICATIONS | | MECHANICAL SPECIFICATIONS | |
|---------------------------|--|---------------------------|--|
| Frequency Range | 864 – 869 MHz (EU) 902 – 928 MHz (US) | Dimensions | 650 × 86 × 8 mm |
| Polarization | Linear | Weight | 0.5 kg |
| Antenna Gain | 5 dBic | Radome Material | Fire retardant Kydex |
| Beamwidth | 110° XZ (h), 30° in YZ (v) | Protection Class | IP54 |
| Typical VSWR | < 1.8:1 | Operating Temperature | -20 °C to +55 °C |
| Front to back Ratio | 7 dB | Connector type | SMA female side fly lead (300 mm) 2 m SMA to RPTNC (included) |
| Nominal Impedance | 50 Ω | | |
| Anti-static Protection | Yes | | |
| Max. Input Power | 6 W | | |

ORDER CODE

| VERSION | ORDER CODE |
|--------------------|------------|
| Door Frame Antenna | R-T7-A8060 |