

Industrial PCs applied in

- / Logistics and Warehouse
- / Heavy Duty
- / Fleet Management
- / Stationary and Automation



**Antennas for
MTC 6 Series,
Catalog V1.00**

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1. Antennas for challenging industrial environments

1.1. Integrated WLAN antenna

The antenna is a critical technical component for ensuring a stable radio link.

Especially in challenging industrial environments such as warehouses and production facilities, there are no easy solutions with regard to wave propagation.

No off-the-rack solution will work here and this is why Advantech-DLoG offers custom solutions.

Our integrated antennas are matched as perfectly as possible to the respective vehicle terminal and achieve an optimal circular radiation characteristic.

The protective cap ensures high mechanical stability and protects the antenna from damage.

1.2. External WLAN antenna

Solid driver cabs can significantly interfere with the radio link. For this application, we recommend so-called remote antennas, which are not attached directly to the vehicle terminal but rather on the vehicle roof, for example. They have better reception at this location.

To facilitate these types of configurations, Advantech-DLoG offers remote antennas from selected manufacturers.

When selecting the remote antennas, we take a range of factors into account to ensure that they are optimally matched to our terminals and to the respective customer application. This includes technical data such as radiation characteristics and performance.

2. Integrated WLAN antenna with diversity



- Dual Band Diversity antenna for WLAN frequency band IEEE 802.11 a/b/g and IEEE 802.11 n
- 2 WLAN antennas integrated into antenna cap
- Order number antenna red: DL-CWFAK79396400



- Order number antenna grey: DL-CWFAK79396300



Technical data	
Application	Dual Band Diversity antenna for WLAN frequency band IEEE 802.11 a/b/g and IEEE 802.11 n
Number of antennas	2
Type	Omnidirectional antenna
Directionality	Optimized for the MTC 6 housing
Frequency range	Band 1: 2400 to 2485 MHz Band 2: 5150 to 5875 MHz
Antenna gain	Max. 3 dBi (without loss through the cable)
Impedance	50 Ω
Polarization	Vertical

3. External WLAN antenna kit, remote



- Dual Band antenna for WLAN frequency band IEEE 802.11 a/b/g and IEEE 802.11 n
- For remote installation, e.g. on the roof of the forklift
- 3 m antenna cable plus mounting set included in the scope of delivery
- Order number: DL-BWFAK79396500

Technical data	
Application	Dual Band antenna for WLAN frequency band IEEE 802.11 a/b/g and IEEE 802.11 n
Mounting location	For remote installation, e.g. on the roof of the forklift
Number of antennas	1 (no diversity)
Type	Omnidirectional antenna
Frequency range	Band 1: 2400 to 2485 MHz Band 2: 5150 to 5875 MHz
Antenna gain	Band 1: Max. 4 dBi (without loss through the cable) Band 2: Max. 6,5 dBi (without loss through the cable)
Impedance	50 Ω
Polarization	Vertical
Dimensions	\varnothing 86 x 43 mm (\varnothing 3,39" x 1,69")
Weight	0,3 kg (0,66 lbs)
Connector labeling	N type or TNC N, jack, female, bottom RSMA plug for RSMA socket on the terminal

4. Connecting external antennas via RSMA

External antennas are attached to the roofs of forklifts, for example.

They are connected to the underside of the MTC 6 via antenna cable with RSMA plug.

The following connection on the MTC 6 is available for this:

