

Advantech-DLoG**/ DLT-V72 Series**

Catalog



Accessories DLT-V72 Series

- Antennas
- Keyboards
- Scanners
- Stylus
- Terminal mounting brackets

Catalog V1.00

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By DLoG GmbH
Industriestraße 15
D-82110 Germering
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Phone: (+49) 89 / 41 11 91 0
Mail: info@advantech-dlog.com
Internet: www.advantech-dlog.com

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1. ANTENNAS

1.1. Integrated and remote solutions

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.

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 efficiency.

1.2. Integrated Low Profile Wi-Fi antenna with diversity



Technical data / Order number	
Application	Dual Band Diversity antenna for Wi-Fi frequency bands IEEE 802.11 a/b/g/n
Number of antennas	2
Type	Omnidirectional antenna
Directionality	Optimized for the DLT-V72 housing
Frequency range	Band 1: 2400 to 2485 MHz Band 2: 5150 to 5875 MHz
Antenna gain	Max. 5 dBi (without loss through the cable)
Impedance	50 Ω
Polarization	Vertical / Horizontal
Order number antenna red	DL-WFAK79377500
Order number antenna grey	DL-WFAK79377600

1.3. External Wi-Fi antenna kit, remote



Technical data / Order number	
Application	Dual Band antenna for Wi-Fi frequency bands IEEE 802.11 a/b/g/n
Mounting location	For remote installation, e.g. on the roof of the forklift
Number of antennas	1
Type	Omnidirectional antenna
Frequency range	Band 1: 2400 to 4900 MHz Band 2: 4900 to 6000 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 / Horizontal
Dimensions	Ø 86 x 43 mm (Ø 3,39" x 1,69")
Weight	0,3 kg (0,66 lbs)
Delivery contents	3 m antenna cable and mounting set
Connector labeling	N-Type or TNC N,Jack, female, bottom RSMA plug for RSMA socket on the terminal
Order number	DL-AGIK79378700

1.4. External GPS receiver



Technical data / Order number	
Application	GPS GALILEO DGPS (WAAS Europe, EGNOS USA)
Technology	u-Blox 5 Supports NMEA 0183 protocols: GGA, GSA, GSV, RMC, VTG USB specification 1.1 Auto Baud Rate up to 115200 UP-DATE Rate: up to 4 Hz LED display for GPS status
Type	RHCP
Frequency range GPS	L1 frequency 1575.42 MHz
Delivery contents	USB cable, cable length: 1.50 m
Order number	17DLWFAN66333000

2. KEYBOARDS WITH MOUNTINGS

2.1. 24-key keyboard

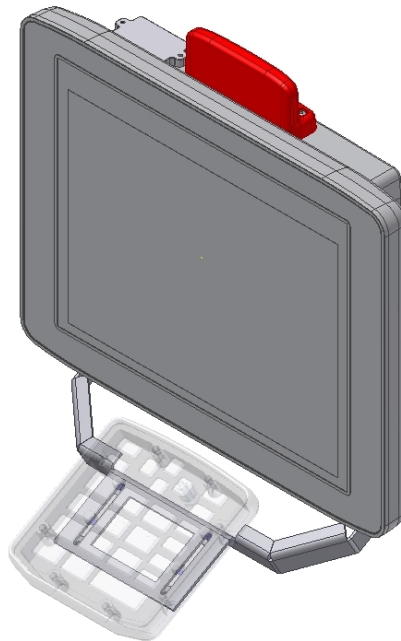
2.1.1. Technical data keyboard



Technical data / Order number	
Application	For raw industrial environment and vehicles. Suitable for operation with gloves. Outstanding haptics and tactility.
Housing material	Coated aluminum
Dimensions	Height 132 mm, Width 132 mm, Depth 24 mm
Weight	0.5 kg
Cable length	50 cm
Number of keys	24
Keys service life	1 million switching cycles min.
Key switching force	2 N
Key switching distance	1.5 mm
Key press technology	Sealed direct press
Connection	USB
Supply voltage	5 V
IP protection	IP65
Operating temperature	-10 to +60 °C
Storage temperature	-35 to +80 °C
Delivery contents	USB connection cable included
Order number	DL-KBXX65409200

2.1.2. Front mounting

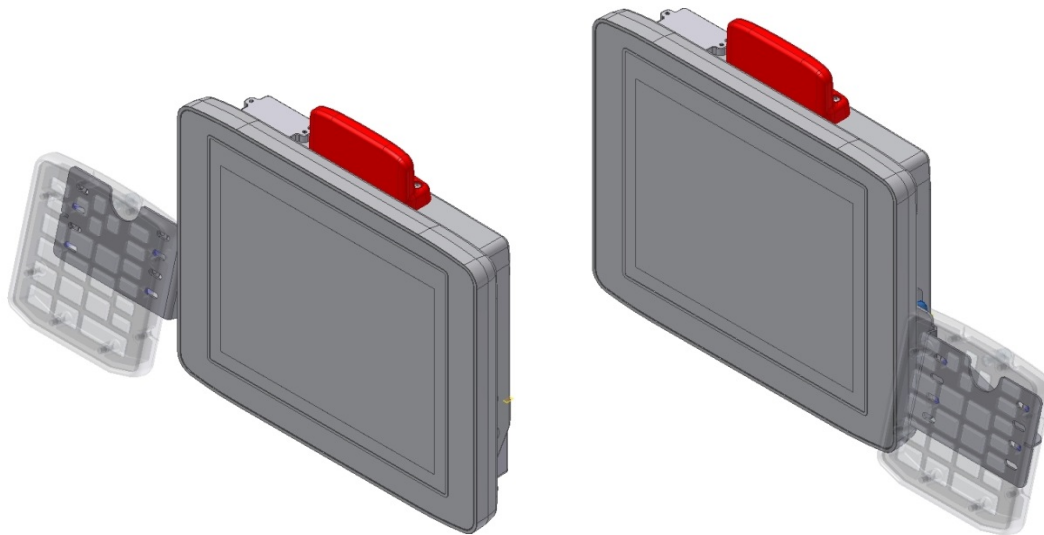
Example: DLT-V7212



Technical data / Order number	
Application	For raw industrial environment and vehicles
Vibration/shock resistance	5M3
Material	Steel St 37-2 powder coated
Delivery contents	Mounting Screws for attachment to the terminal
Order number (DLT-V7210 and DLT-V7212)	DL-MEMS79375100

2.1.3. Side mounting

Examples: DLT-V7210



Technical data	
Application	For raw industrial environment and vehicles
Vibration/shock resistance	5M3
Material	Steel St 37-2 powder coated
Delivery contents	Mounting Screws for attachment to the terminal

Order numbers	
Side mounting for DLT-V7210, right	DL-MEMS79375200
Side mounting for DLT-V7210, left	DL-MEMS79375300
Side mounting for DLT-V7212, right	DL-MEMS79372000
Side mounting for DLT-V7212, left	DL-MEMS79372100

2.2. SMALL keyboard

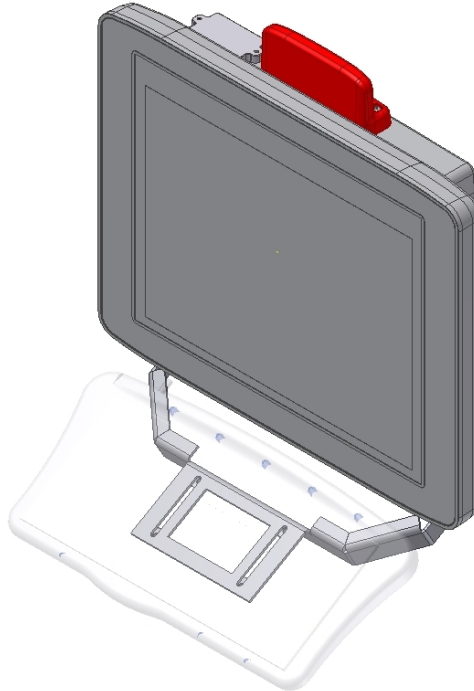
2.2.1. Technical data SMALL keyboard



Technical data / Order number	
Application	For raw industrial environment and vehicles. Suitable for operation with gloves. Outstanding haptics and tactility.
Housing material	Plastic
Dimensions	Height 298 mm, width 142 mm, depth 22 mm
Cable length, table version	180 cm
Cable length, mounted version	60 cm
Number of keys	86, integrated mouse function
Keys service life	At least 1 million switching cycles
Key switching force	0.6 N
Key switching distance	1.5 mm
Connection	USB
Operating voltage	5 V
Current consumption	10 mA
IP protection class/category	IP65
Operating temperature	-10 to +60 °C
Storage temperature	-40 to +80 °C
Delivery contents	Including USB connection cable
Order numbers	German (QWERTZ): DL-CKBSM65409700 English (QWERTY): DL-CKBSM65409800 French (AZERTY): DL-CKBSM65409300

2.2.2. Front mounting

Example: DLT-V7212



Technical data / Order number	
Application	For raw industrial environment and vehicles
Vibration/shock resistance	5M3
Material	Steel St 37-2 powder coated
Delivery contents	Including screws for attachment to the terminal
Order number (DLT-V7210 and DLT-V7212)	DL-MEMS79375100

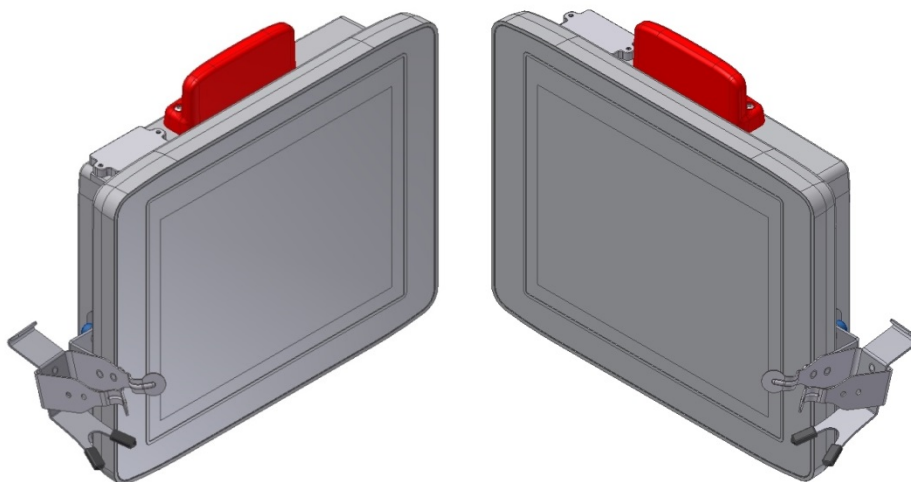
3. SCANNERS WITH MOUNTINGS

3.1. Scanners

Please contact your Advantech-DLoG sales representative if needed.

3.2. Mountings left, right

Examples: DLT-V7210



Technical data	
Application	For raw industrial environment and vehicles
Vibration/shock resistance	5M3
Material	Steel St 37-2 powder coated
Delivery contents	Mounting Screws for attachment to the terminal

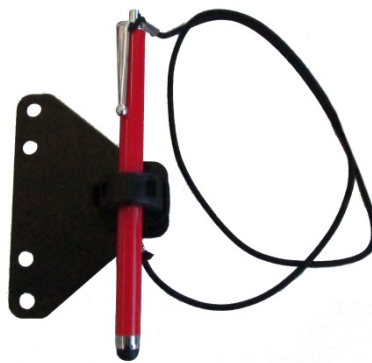
Order numbers	
Scanner mounting for DLT-V7210, right	DL-MEMS79375400
Scanner mounting for DLT-V7210, left	DL-MEMS79375500
Scanner mounting for DLT-V7212, right	DL-MEMS79372200
Scanner mounting for DLT-V7212, left	DL-MEMS79372300

4. STYLUS WITH MOUNTINGS

Stylus with mounting
for resistive touchscreen



Stylus with mounting
for PCT touchscreen



Technical data	
Application	For raw industrial environment and vehicles
Material (mounting)	Steel St 37-2 powder coated
Delivery contents	Stylus Mounting with elastic band (anti-loss) Screws for attachment to the terminal

Order numbers	
Stylus with mounting for DLT-V7210 with a resistive touchscreen	DL-MEMT79388200
Stylus with mounting for DLT-V7210 with a PCT touchscreen	DL-MEMT79388300
Stylus with mounting for DLT-V7212 with a resistive touchscreen	DL-MEMT79388400
Stylus with mounting for DLT-V7212 with a PCT touchscreen	DL-MEMT79388500

5. TERMINAL MOUNTINGS

5.1. Operation classes 5M3, 5M2 and 5M1

This catalog shows the mounting solutions for the DLT-V72 Industrial PCs.

It specifies whether the listed mounting solutions are suitable for mobile use, restricted mobile use or stationary use.

These uses correspond to the operation classes 5M3, 5M2 and 5M1 for mechanical environmental conditions.

The following standards offer a practical means of reference:

- DIN EN 60721-3-5: 1998 classification of environmental conditions, part 3, section 5: Use on and in ground vehicles.
- Military standard MIL-STD 810F: 2000.

5M3: Mobile use

Operational environments with **high** energy vibrations and **high** energy shocks as well as **rough** handling/transport compliant with:

- Operation class **5M3** according to DIN EN 60721-3-5 or equivalent.
- Category **US Highway Truck** according to MIL-STD 810F.
- Examples: Vehicles without shock absorption: Forklifts, unbalanced machines: Combustion engine of a construction machine.

5M2: Restricted mobile use

Operational environments with **low** energy vibrations and **high** energy shocks as well as **careful** handling/transport compliant with:

- Operation class **5M2** according to DIN EN 60721-3-5 or equivalent.
- Category **US Highway Truck** according to MIL-STD 810F.
- Examples: Vehicles with shock absorption: Driver's cab in a tractor, standing machines: Machine tools.

5M1: Stationary use

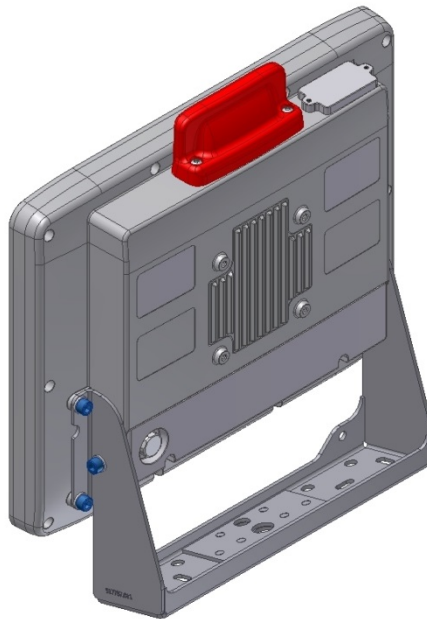
Operational environments with **low** energy vibrations and **medium** energy shocks as well as **very careful** handling/transport compliant with:

- Operation class **5M1** according to DIN EN 60721-3-5.
- Examples: Vehicles with very good shock absorption: Car dashboard, immobile mounting surfaces: Desk or wall.

5.2. Mounting brackets / adapters

5.2.1. Mobile mounting bracket

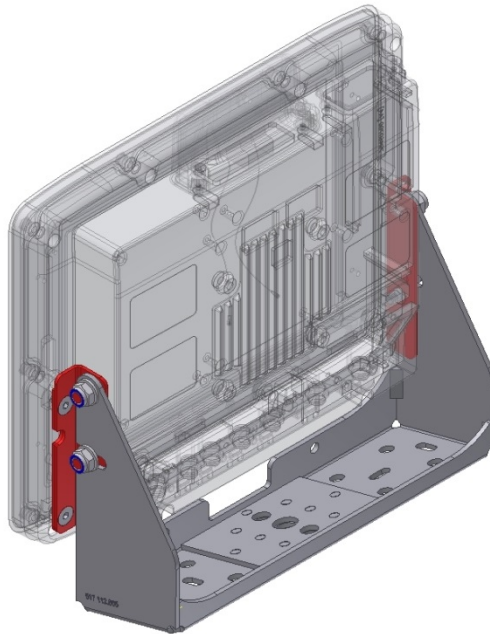
Example: DLT-V7212



Technical data / Order number	
Application	For raw industrial environment and vehicles
Vibration/shock resistance	Suitable for mobile use according to class 5M3
Material	Steel St 37-2 powder coated
Delivery contents	Mounting Screws for attachment to the terminal
Order number (DLT-V7210 and DLT-V7212)	DL-MEMT79375000

5.2.2. Adapter set for reusing MPC 6 mobile mounting bracket

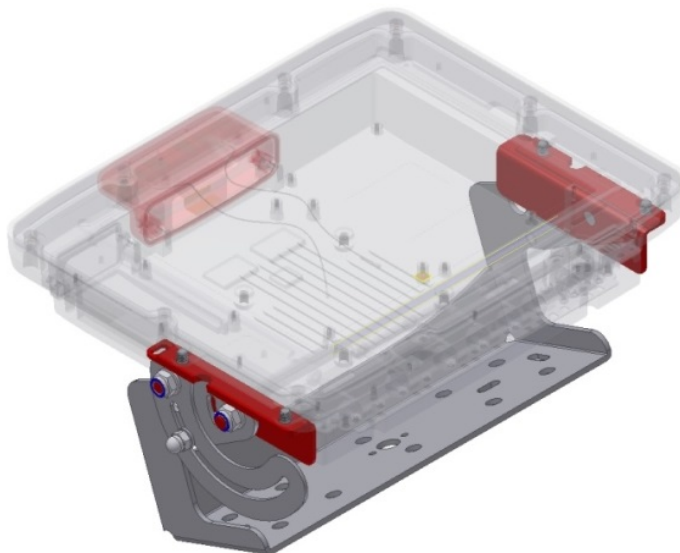
Example: DLT-V7210



Technical data / Order number	
Application	Adapter set for reusing the mobile mounting bracket of the terminal MPC 6/10 or MPC 6/12.
Vibration/shock resistance	Suitable for mobile use according to class 5M3
Material	Steel St 37-2 powder coated
Delivery contents	Mounting Screws for attachment to the terminal
Order number (DLT-V7210 and DLT-V7212)	DL-MEMS79375800

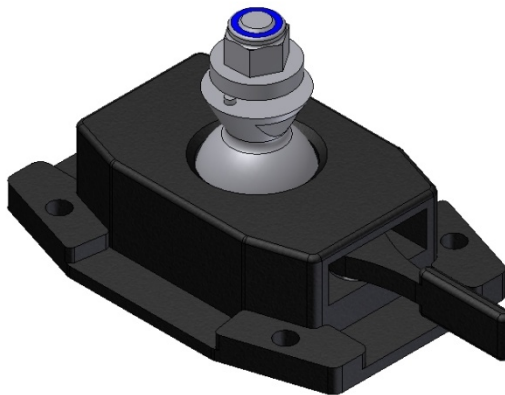
5.2.3. Adapter set for reusing MPC 6 stationary mounting bracket

Example: DLT-V7210



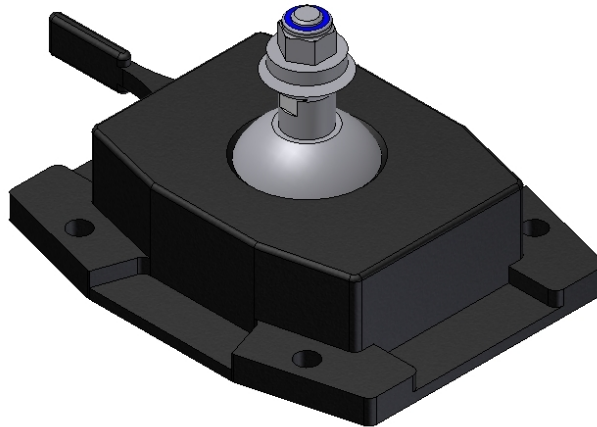
Technical data / Order number	
Application	Adapter set for reusing the stationary mounting bracket of the terminal MPC 6/10 or MPC 6/12.
Vibration/shock resistance	Suitable for stationary use according to 5M1
Material	Steel St 37-2 powder coated
Delivery contents	Mounting Screws for attachment to the terminal
Order number (DLT-V7210 and DLT-V7212)	DL-MEMS79375900

5.2.4. Clamp mount small



Technical data / Order number	
Application	<p>The clamp mount small is always combined with an Advantech-DLoG mounting bracket.</p> <p>Both together enable you to attach the DLT-V72 terminal freely swiveled and flexible positioned.</p>
Vibration/shock resistance	<p>DLT-V7210: Suitable for mobile use according to class 5M3</p> <p>DLT-V7212: Suitable for restricted mobile use according to class 5M2</p>
Delivery contents	Clamp mount small
Order number (DLT-V7210 and DLT-V7212)	DL-CMECF51029001

5.2.5. Clamp mount maxi



Technical data / Order number	
Application	<p>The clamp mount maxi is always combined with an Advantech-DLoG mounting bracket.</p> <p>Both together enable you to attach the DLT-V72 terminal freely swiveled and flexible positioned.</p>
Vibration/shock resistance	<p>DLT-V7210: Suitable for mobile use according to class 5M3</p> <p>DLT-V7212: Suitable for restricted mobile use according to class 5M2</p>
Delivery contents	Clamp mount maxi
Order number (DLT-V7210 and DLT-V7212)	DL-CMECF51029100

5.2.6. Clamp mount adapter low



Technical data / Order number	
Application	The clamp mount adapter low is always combined with a clamp mount. Both together enable you to attach the DLT-V72 terminal without mounting bracket.
Vibration/shock resistance	DLT-V7210: Suitable for mobile use according to class 5M3 DLT-V7212: Suitable for restricted mobile use according to class 5M2
Delivery contents	Clamp mount adapter low Screws for attachment to the terminal (VESA drill holes)
Order number (DLT-V7210 and DLT-V7212)	DL-MEMENT70123500

5.2.7. Clamp mount adapter high

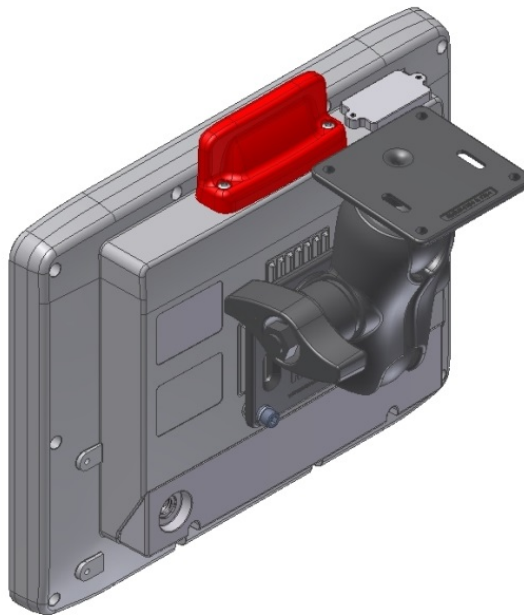


Technical data / Order number	
Application	The clamp mount adapter high is always combined with a clamp mount.Both together enable you to attach the DLT-V72 terminal without mounting bracket.
Vibration/shock resistance	DLT-V7210: Suitable for mobile use according to class 5M3 DLT-V7212: Suitable for restricted mobile use according to class 5M2
Delivery contents	Clamp mount adapter high Screws for attachment to the terminal (VESA drill holes)
Order number (DLT-V7210 and DLT-V7212)	DL-CMENT70123400

5.3. RAM-Mount

5.3.1. RAM-Mount set short, ball 2.25"

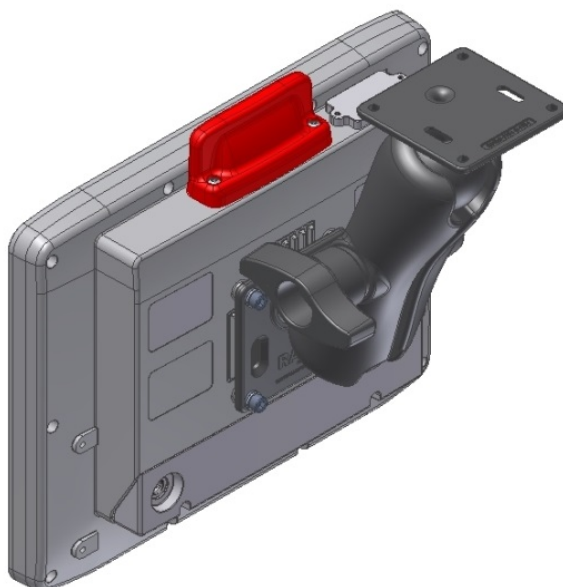
Example: DLT-V7212



Technical data / Order number	
Application	For raw industrial environment and vehicles
Vibration/shock resistance	Suitable for mobile use according to class 5M3
Delivery contents	RAM mounting: <ul style="list-style-type: none"> – Ball 2.25" (with plate) – 1 arm – Arm length 130 mm Screws for attachment to the terminal
Order number (DLT-V7210 and DLT-V7212)	DL-CMENT70129800

5.3.2. RAM-Mount Set Long, Ball 2.25"

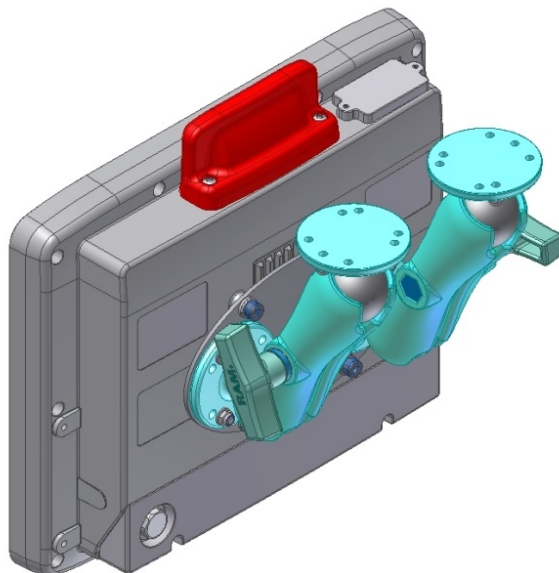
Example: DLT-V7212



Technical data / Order number	
Application	For raw industrial environment and vehicles
Vibration/shock resistance	Suitable for mobile use according to class 5M3
Delivery contents	RAM mounting: <ul style="list-style-type: none"> – Ball 2.25" (with plate) – 1 arm – Arm length 215 mm Screws for attachment to the terminal
Order number (DLT-V7210 and DLT-V7212)	DL-CMENT70129700

5.3.3. RAM-Mount Set Long, Double Arm, Ball 1.5"

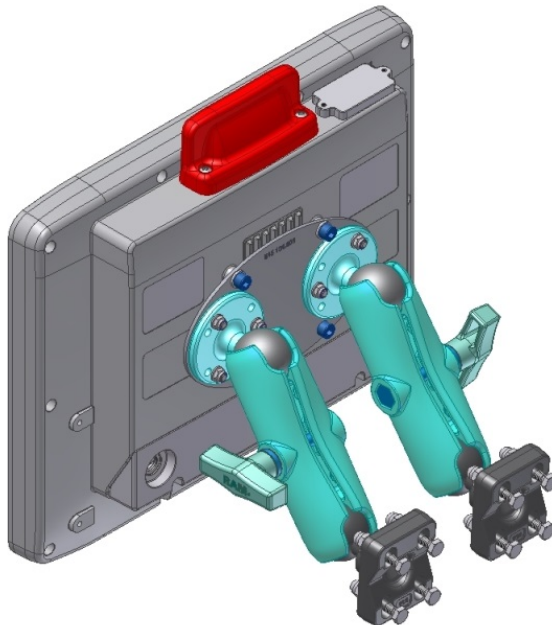
Example: DLT-V7210



Technical data / Order number	
Application	For raw industrial environment and vehicles
Vibration/shock resistance	Suitable for mobile use according to class 5M3
Delivery contents	RAM mounting: <ul style="list-style-type: none"> – Ball 1.5" – 2 arms – Arm length 150 mm Screws for attachment to the terminal
Order number (DLT-V7210 and DLT-V7212)	DL-BMENT70146300

5.3.4. RAM-Mount Set Long, Double Arm, Ball 1.5", Tube Mounting

Example: DLT-V7212



Technical data / Order number	
Application	For raw industrial environment and vehicles
Vibration/shock resistance	Suitable for mobile use according to class 5M3
Delivery contents	RAM mounting: <ul style="list-style-type: none"> – Ball 1.5" – 2 arms – Arm length 150 mm – For tube mounting Screws for attachment to the terminal
Order number (DLT-V7210 and DLT-V7212)	DL-CMENT70119300