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DEKRA Testing and Certification, S.A.U.

Parque Tecnológico de Andalucía
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**Effective-antenna-gain in the HERMES 4.0 project;
FCC ID: T8GHERMES40 ; IC: 6434A-HERMES40**

We, Harman Becker Automotive Systems GmbH, Becker-Goering-Str. 16, 76307, Karlsbad confirm, that the **HERMES 4.0** telematic unit will be installed into vehicles of our customer Mercedes-Benz. It will only be used with the dedicated passive PIFA Antenna A1679051606/A1679056307 from AUMOVIO. Due to integration into the car with a long antenna-cable, we have the following **effective antenna gain**:

Technology	Frequency	PIFA-Ant	cable Att.	effective Ant gain
• 2G bands/ GSM 1900:				
○ 1850 – 1910 MHz		4,8 dBi	3,88 dB	0,92 dBi
• 3G bands:				
○ IV: 1710 – 1755 MHz		5,6 dBi	3,63 dB	1,97 dBi
• 4G bands:				
○ 4: 1710 – 1755 MHz		5,6 dBi	3,63 dB	1,97 dBi
○ 48: 3550 – 3700		5,7 dBi	6,24 dB	-0,54 dBi
○ 66: 1710 – 1780		5,6 dBi	3,63 dB	1,97 dBi
• 5G bands:				
○ n41: 2496 – 2690 MHz		7,9 dBi	5,07 dB	2,83 dBi
○ n48: 3550 – 3700 MHz		5,7 dBi	6,24 dB	-0,54 dBi
○ n66: 1710 – 1780 MHz		5,6 dBi	3,63 dB	1,97 dBi
○ n77(FCC): 3700 – 3980 MHz		7,0 dBi	6,24 dB	0,76 dBi
○ n78(FCC): 3700 – 3800 MHz		5,7 dBi	6,24 dB	-0,54 dBi
○ n77 (ISED): 3450 – 3650 MHz		8,5 dBi	6,24 dB	2,26 dBi
○ n78 (ISED): 3450 – 3650 MHz		8,5 dBi	6,24 dB	2,26 dBi

In case of any questions please do not hesitate and contact us.

Regards



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Regulatory Compliance Management



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