

**m. dudde hochfrequenz-technik**  
Rottland 5a, D-51429 Bergisch-Gladbach

DIN EN ISO/IEC 17025 certified  
DAkkS accreditation number: D-PL-12053-01

Tel. : +49 22 07 - 96 89 - 0  
Fax : +49 22 07 - 96 89 - 20  
email: manfred.dudde@t-online.de  
www.dudde.com



Attn: Reviewing Engineer

RE: FCC Part 15C HOST SPECIFIC LIMITED MODULAR TRANSMITTER APPROVAL

To Whom It May Concern:

Our customer, WERMA Signaltechnik GmbH + Co. KG, hereby requests limited modular approval acc. to FCC Part 15 (Limited Modular Approval)

Brand/Trade name: WERMA

Model name: WIN1

FCC certification number: **ZGHWIN1**

Host devices: win master, win slave, reflect master, reflect slave

Transmitters designed as modules for the installation in a host device may obtain equipment certification as a modular device provided that the applicable FCC part is met and the following conditions in this section are met.

<i>Items to be covered</i>	<i>Answer from applicant</i>
1. The modular transmitter must have its own RF shielding.	YES
2. The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.	YES
3. The modular transmitter must have its own power supply regulation.	The modular transmitter is to be part of a host device and complies with the applicable certification requirements. The power supply regulation is only part of the host device and is in all host devices, listed above, technical identically. The module will only be implemented in host devices by the manufacturer! See test report!
4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable)..	YES
5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed.	NO, Limited modular approval DUT is inside a host device

**m. dudde hochfrequenz-technik**  
 Rottland 5a, D-51429 Bergisch-Gladbach

**DIN EN ISO/IEC 17025 certified**  
**DAkkS accreditation number: D-PL-12053-01**

**Tel. : +49 22 07 - 96 89 - 0**  
**Fax : +49 22 07 - 96 89 - 20**  
**email: manfred.dudde@t-online.de**  
**www.dudde.com**



<p>6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: “Contains Transmitter Module FCC ID: XYZMODEL1” or “Contains FCC ID: XYZMODEL1.” Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.</p>	<p>The modular transmitter is to be part of a host device and complies with the applicable certification requirements of FCC Part 15. The module will only be implemented in host devices by the manufacturer!          See Annex No.4 (Label Sample)</p>
<p>7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured.</p>	<p>YES</p>
<p>8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance.</p>	<p>YES</p>

Note: If compliance with one or more of the numbered requirements, listed above, cannot be demonstrated, it may be possible to obtain a “Limited Modular Approval” (LMA).

m. dudde hochfrequenz-technik

Andreas Morsbach  
 Management Assistant