

**TCB****GRANT OF EQUIPMENT  
AUTHORIZATION****TCB****Certification****Issued Under the Authority of the  
Federal Communications Commission****By:****PHOENIX TESTLAB GmbH  
Koenigswinkel 10  
32825 Blomberg,  
Germany****Date of Grant: 09/25/2013****Application Dated: 09/25/2013****Hirschmann Automation and Control GmbH  
Stuttgarter Str. 45-51  
Neckartenzlingen, D-72654  
Germany****Attention: Martin Burkhardt****NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE,  
and is VALID ONLY for the equipment identified hereon for use under the  
Commission's Rules and Regulations listed below.

**FCC IDENTIFIER: U99EWLAN1****Name of Grantee: Hirschmann Automation and Control  
GmbH****Equipment Class: Digital Transmission System****Notes: 802.11abgn Module****Modular Type: Limited Single Modular**

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
CC MO	<b>15C</b>	<b>2412.0 - 2462.0</b>	<b>0.044</b>		
CC MO	<b>15C</b>	<b>2422.0 - 2452.0</b>	<b>0.039</b>		
CC MO	<b>15C</b>	<b>5745.0 - 5825.0</b>	<b>0.078</b>		
CC MO	<b>15C</b>	<b>5755.0 - 5795.0</b>	<b>0.071</b>		

This device must be professionally installed. Power listed is the maximum combined peak conducted output power as indicated in the filing. Approval is limited to OEM installation only, and the host in which this module is integrated should provide stable 3.3 VDC power via PCI Express Interface. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. OEM integrators must be provided with antenna installation instructions. OEM integrators and end-users must be provided with transmitter operation conditions for satisfying RF exposure compliance. This grant is valid only when the device is sold to OEM integrators and the OEM integrators are instructed to ensure that the end user has no manual instructions to remove or install the device. Device is operating in a 3x3 Spatial Multiplexing MIMO configuration as described in this filing. When operating in 802.11n, 40 MHz mode, the operating frequency segment is limited to 2422 to 2452 MHz and 5755 to 5795 MHz.

CC: This device is certified pursuant to two different Part 15 rules sections.

MO: This Multiple Input Multiple Output (MIMO) device was evaluated for multiple transmitted signals as indicated in the filing.