



GE  
Digital Solutions

Druck Limited  
Fir Tree Lane  
Groby Leicester LE6 0FH  
England

T +44 (0) 116 231 7100  
F +44 (0) 116 231 7101

Element Materials Technology  
100 Frobisher Business Park  
Leigh Sinton Road  
Malvern  
Worcestershire  
WR14 1BX  
UK

#### MODULAR APPROVAL REQUEST

Date: 2<sup>nd</sup> November 2016

RE: FCC Modular Approval  
FCC ID: QOQWT41

To Whom It May Concern:

Please be advised that the manufacturer requests that the above-referenced model be approved for Modular Approval in accordance with the FCC Rules and Regulations.

Our Product meets the FCC modular approval policies in the following ways:

i The radio elements must have the radio frequency circuitry shielded. Physical/discrete and tuning capacitors may be located external to the shield, but must be on the module assembly;

- The Bluegiga WT41 module (FCC ID QOQWT41) is supplied direct from the manufacturer with a shielding 'can' in place which covers the RF electronics.
- The entire Bluegiga module and external RF interconnecting traces are further shielded on the GE PCA (printed circuit board assembly) with a shielding can.

ii The module must have buffered modulation/data inputs to ensure that the device will comply with Part 15 requirements with any type of input signal;

- The data inputs to the Bluegiga module operate at standard CMOS digital input levels and are buffered within the Bluecore4 chip.

iii The module must contain power supply regulation on the module;

- The Bluegiga module has its own power supply regulation integrated to the internal Bluecore4 chip.
- Additionally the Bluegiga module is powered from a regulated supply on the GE PCA

iv The module must contain a permanently attached antenna, or contain a unique antenna connector, and be marketed and operated only with specific antenna(s), per Sections 15.203, 15.204(b), 15.204(c), 15.212(a), 2.929(b);

- The Bluegiga module is permanently attached to a unique external patch antenna (GE proprietary design) within the case of the GE ADTS554F Air Data Test Set product.

v The module must demonstrate compliance in a stand-alone configuration;

- The module was tested in a representative host, see test report

vi The module must be labelled with its permanently affixed FCC ID label, or use an electronic display (See KDB Publication 784748 about labelling requirements);

- The module is labelled with FCC ID

vii The module must comply with all specific rules applicable to the transmitter. The grantee must provide comprehensive instructions to explain compliance requirements;

- The module is compliant with all FCC rules see test report

viii The module must comply with RF exposure requirements. For any transmitters intended for use in portable devices, SAR compliance must be demonstrated to be independent of the host device. See KDB Publication 447498 Item 2) as a guide to determine if a transmitter can be tested without being limited to a host device. If SAR compliance can only be demonstrated in specific host types or platforms, then the module type must be "limited."

- See RF exposure calculation

Thank you for your attention to this matter.

Yours faithfully

M.T. Concannon  
MATTHEW CONCANNON  
CERTIFICATION ENGINEER

Druck Ltd