

## Construction Type Certification

Registration No. CSRT160007

Certificate Holder Particle Industries, Inc.  
1400 Tennessee St, #4 San Francisco, CA 94107

Product Category Article 2, Paragraph 1, Item 19

Model Type or Name PHOTONH, PHOTONNOH

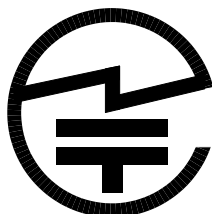
Type of Emission, Frequency and Antenna Power  
G1D 2412MHz - 2472MHz (5MHz separation, 13 channels)  
6.30 mW/MHz , 8.20 mW/MHz  
D1D, G1D 2412MHz - 2472MHz (5MHz separation, 13 channels)  
4.00 mW/MHz , 2.58 mW/MHz  
D1D, G1D 2412MHz - 2472MHz (5MHz separation, 13 channels)  
2.50 mW/MHz , 1.50 mW/MHz

Manufacturer Particle Industries, Inc.  
1400 Tennessee St, #4 San Francisco, CA 94107

Factory ABO Electronics (Shenzhen) Co., Ltd  
2F, Building A, No.6, Heyu Industry Park, Heping Village, Fuyong, Baoan District,  
Shenzhen City, Guangdong Province, 86755, 518103, P.R.China

Remarks The scope of evaluation relates to the submitted documents and product only.  
It is only valid in conjunction with the Annex.

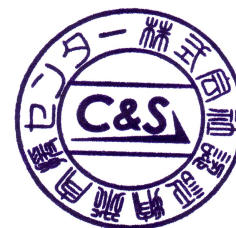
When the product is placed on the Japanese market, the Specified Radio Equipment marking as shown on the right must be attached on visible part of the product.




**R 018-160007**

Witnesses that the certification is on Construction Type Certification under Article 38-24 of the Radio Law.

Date of Certificate  
2016-01-26



Certification Examiner : Takuji Nakano  
 /Certificate Technical Support Center Co., Ltd.

**Technical Construction Form (WW, WiFi)**

1. Product Description	PHOTON	
2. Model Number	PHOTONH, PHOTONNOH	
3. IEEE Standard No.	802.11b, 802.11g, 802.11n-HT20	
4. Transmitter		
(1) Rated Output	(Chip Antenna) 6.30 mW/MHz, (Dipole Antenna) 8.20 mW/MHz 4.00 mW/MHz, 2.58 mW/MHz 2.50 mW/MHz, 1.50 mW/MHz	(802.11b) (802.11g) (802.11n-HT20)
(2) Type of Emission and Frequency	G1D 2412MHz - 2472MHz (5MHz separation, 13 channels) D1D, G1D 2412MHz - 2472MHz (5MHz separation, 13 channels) D1D, G1D 2412MHz - 2472MHz (5MHz separation, 13 channels)	
(3) Oscillation	Synthesizer method using Crystal Oscillator with 26MHz	
(4) Type of Modulation	CCK, QPSK, BPSK BPSK, QPSK, 16QAM, 64QAM	
(5) Spectrum Spread Method etc.	DSSS OFDM	
(6) RF Module / Chip	MB-09-S / BCM43362	
5. Antenna		
(1) Type or Structure	Chip Antenna / Dipole Antenna	
(2) Antenna Gain	1.30 dBi (Chip Antenna) / 2.15 dBi (Dipole Antenna)	
6. Power Source	DC5.0V	
7. Auxiliary Equipment	- Interference prevention function equipment (The function specified in Article 9-4 of the Ordinance Regulating Radio Equipment)	
8. Test Report	BTL-JPAP-1-1504C213A (Date of Issue: 2016.01.05)	
9. Test Laboratory	BTL Inc.	
10. Review Documents	Block Diagram Circuit Diagram BOM List Antenna Specification	External Photographs Internal Photographs User Manual Certificate Label Design and Location PCB Layout
11. Confirmation Method of Certification by Type	ISO 9001 Certificates (ABO Electronics (Shenzhen) Co., Ltd) QC Assignment Form	
12. Reference Information	Module shaped radio equipment Peripheral equipment: System board Interface: SPI, ADC, DAC, UART, JTAG, USB, GPIO	