



TECHNICAL ACCEPTANCE CERTIFICATE

CERTIFICAT D'APPROBATION TECHNIQUE

CB Identifier OEC Identificateur	TAC Identifier CAT Identificateur	Issue date Date d'émission
ES1909	45355RCB.005	June 7, 2017

Product Marketing Name (PMN): **Meshlium 4G 802.15.4 AP 900 US** HW Version ID No (HVIN): **Meshlium 4G 802.15.4 AP 900 US**

Host Marketing Name (HMN): **N/A** FW Version ID No. (FVIN): **1.0**

CERTIFICATION No. **▶ 8472A- MESHLIUMV1**
No. DE CERTIFICATION

TYPE OF APPLICATION **▶ Single new Certification**
TYPE DE DEMANDE

ISSUED TO **▶ Libelium Comunicaciones Distribuidas S.L.**
DÉLIVRÉ A **Calle Escatrón, 16, Edificio Libelium
Zaragoza 50014 Spain**

TYPE OF RADIO EQUIPMENT **▶ Low Power Device (902–928 MHz)**
TYPE D'ÉQUIPEMENT RADIO **Spread Spectrum/Digital Device (2400–2483.5 MHz)**
WLAN
Advanced Wireless Services (1710–1755 MHz and 2110–2155 MHz)
Cellular Mobile GSM (824-849 MHz)
Cellular Mobile New Technologies (824–849MHz)
Mobile Broadband Service (MBS) (698–756 and 777–787 MHz)
PCS Mobile (1850–1910 MHz)

CERTIFIED TO **▶ SPECIFICATION **RSS-130** ISSUE/DATE **1 / Oct. 2013****
CERTIFIÉ SELON LE **CAHIER DES CHARGES **RSS-132** ÉDITION/DATE **3 / Jan. 2013****
RSS-133 **6 / Jan. 2013**
RSS-139 **3 / July 2015**
RSS-247 **1 / May 2015**

TEST LABORATORY **▶ DEKRA Testing and Certification, S.A.U.**
LABORATOIRE D'ESSAI **Severo Ochoa, 2 & 6
jsoler@at4wireless.com
Phone: 34 9562619100; Fax: 34 9562619113**

SITE No. **▶ 4621A-2**
No. DE SITE

ANTENNA **▶ External antennas. Gain Gain**
ANTENNE
900 MHz transmitter **2 dBi 850 MHz band **0.03 dBi****
802.15.4 **5 dBi 1900 MHz band **-0.07 dBi****
WiFi **4 dBi 700 MHz band **0.34 dBi****
1700 MHz band **0.67 dBi**

Certification of equipment means only that the equipment has met the requirements of the above-noted specification. Licence applications, where applicable to use certified equipment, are acted on accordingly by the ISED issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by ISED. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale or sold unless the equipment complies with the applicable technical specifications and procedures issued by ISED.

La certification du matériel signifie seulement que le matériel a satisfait aux exigences de la norme indiquée ci-dessus. Les demandes de licences nécessaires pour l'utilisation du matériel certifié sont traitées en conséquence par le bureau de délivrance d'ISDE et dépendent des conditions radio ambiantes, du service et de l'emplacement d'exploitation. Le présent certificat est délivré à la condition que le titulaire satisfasse et continue de satisfaire aux exigences et aux procédures d'ISDE. Le matériel à l'égard duquel le présent certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins d'être conforme aux procédures et aux spécifications techniques applicables publiées par ISDE.

I hereby attest that the subject equipment was tested and found in compliance with the above noted specification.

J'atteste par la présente que le matériel a fait l'objet d'essai et a été jugé conforme à la spécification ci-dessus.

This Technical Acceptance Certificate has 1 annex with 1 page and it is only valid in conjunction with it.
Ce certificat d'approbation technique a 1 annexe de 1 page et il est valide seulement s'ils sont ensemble.

Signed on behalf of DEKRA Testing and Certification, S.A.U. in Málaga (Spain)

Name: **Ricardo Orejas**
Position: **Responsible of Certification**
e-mail: **ricardo.orejas@dekra.com**



Annex I to technical acceptance

Annexe I au Certificat D'approbation Technique

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TECHNICAL PARAMETERS PARAMÈTRES TECHNIQUES

Frequency range (MHz) / Gamme de fréquences (MHz)		RF power (W) Puissance RF transmise (W)	Occupied Bandwidth (kHz) Largeur de bande occupée (KHz)	Emission designations Désignations des émissions
Lower Frequency / Fréquence inférieure	Upper Frequency / Fréquence supérieure			
902.4	927.6	0.2979	342.685	F1D
2410	2465	0.087	2480	G1D
2412	2462	0.1746	11498	G1D
2412	2462	0.1387	16549	D2D
2412	2462	0.1377	17778	D2D
824.2	848.2	1.62181	246.6768	GXW
824.2	848.2	0.46774	247.6768	GXW
824.2	848.2	0.41687	248.0802	G7W
1850.2	1909.8	0.85704	248.9953	GXW
1850.2	1909.8	0.23714	252.9969	GXW
1850.2	1909.8	0.22439	246.1149	G7W
1852.4	1907.6	0.20464	4154.6	G9W
1852.4	1907.6	0.19231	4170.5	G9W
1852.4	1907.6	0.17378	4166.5	G9W
826.4	846.6	0.19588	4156.8	G9W
826.4	846.6	0.19543	4175.6	G9W
826.4	846.6	0.19543	4169.7	G9W
826.5	846.5	0.19187	4507.3	G7W
826.5	846.5	0.18836	4502.8	D7W
829	844	0.17906	8999.8	G7W
829	844	0.16293	8999.7	D7W
1852.5	1907.5	0.18493	4503.5	G7W
1852.5	1907.5	0.18664	4505.8	D7W
1855	1905	0.17989	9021.3	G7W
1855	1905	0.17865	8966.3	D7W
1860	1900	0.17824	17947.3	G7W
1860	1900	0.17179	17915.8	D7W
706.5	713.5	0.18281	4520.8	G7W
706.5	713.5	0.16255	4523.4	D7W
709	711	0.18664	8980.2	G7W
709	711	0.17140	9014.4	D7W
1712.5	1752.5	0.16866	4510.3	G7W
1712.5	1752.5	0.17824	4505.1	D7W
1715	1750	0.17824	9009.1	G7W
1715	1750	0.17660	8978.3	D7W
1720	1745	0.18072	17924.5	G7W
1720	1745	0.18750	17956.7	D7W