Federative Republic of Brazil
Telecommunications National Agency

ANATEL

Certificate of Equipment Authorization

(Not Transferable)

Nº **15831-20-05739**

Expires: **Indeterminada**

Date of Certificate: **07/12/2020**

Applicant:
CNPJ: 03.800.074/0002-81
ADVANTECH BRASIL S/A

Manufacturer:
ADVANTECH B+B SMARTWORX S.R.O
SOKOLSKA 71 562 04 USTI NAD ORLICI III
Nº

REPÚBLICA CHECA

This document approves, in accordance with the Telecommunication Rules and Regulations, the Certificate of Conformity number TÜV 19.1444, issued by **TÜV Rheinland Brasil**. This approval is issued on behalf of the applicant here identified and is valid only for the product described below for use under the Anatels Rules and Regulations.

Type - Category:
Estação Terminal de Acesso - I

Model - Comercial Name (s)
ICR-3232 /ICR-3232W

Basic technical characteristics:

Faixa de Frequências Tx (MHz)	Potência Máxima de Saída (W)	Designação de Emissões	Tecnologia	Tipo de Modulação
824,0 a 849,0	1,5595	200KG7W	GSM/GPRS/EDGE	GMSK/8PSK
898,5 a 901,0	1,7538	200KG7W	GSM/GPRS/EDGE	GMSK/8PSK
907,5 a 915,0	1,7538	200KG7W	GSM/GPRS/EDGE	GMSK/8PSK
1.710,0 a 1.785,0	1,1857	200KG7W	GSM/GPRS/EDGE	GMSK/8PSK
1.895,0 a 1.900,0	1,0471	200KG7W	GSM/GPRS/EDGE	GMSK/8PSK
824,0 a 849,0	0,2152	5M00G7W	WCDMA/HSDPA/HSUPA	QPSK/16QAM
898,5 a 901,0	0,2118	5M00G7W	WCDMA/HSDPA/HSUPA	QPSK/16QAM
907,5 a 915,0	0,2118	5M00G7W	WCDMA/HSDPA/HSUPA	QPSK/16QAM
1.895,0 a 1.900,0	0,228	5M00G7W	WCDMA/HSDPA/HSUPA	QPSK/16QAM
1.920,0 a 1.980,0	0,2177	5M00G7W	WCDMA/HSDPA/HSUPA	QPSK/16QAM
703,0 a 748,0	0,2223	3M00G7W/5M00G7W/10M0G7W	LTE	QPSK/16QAM
703,0 a 748,0	0,2223	15M0G7W/20M0G7W	LTE	QPSK/16QAM
824,0 a 849,0	0,2188	1M40G7W/3M00G7W/5M00G7W	LTE	QPSK/16QAM
824,0 a 849,0	0,2188	10M0G7W	LTE	QPSK/16QAM
898,5 a 901,0	0,2138	1M40G7W/3M00G7W/5M00G7W	LTE	QPSK/16QAM
907,5 a 915,0	0,2138	1M40G7W/3M00G7W/5M00G7W	LTE	QPSK/16QAM
1.710,0 a 1.785,0	0,2415	1M40G7W/3M00G7W/5M00G7W	LTE	QPSK/16QAM
1.710,0 a 1.785,0	0,2415	10M0G7W/15M00G7W/20M0G7W	LTE	QPSK/16QAM
1.920,0 a 1.980,0	0,2075	5M00G7W/10M0G7W	LTE	QPSK/16QAM
1.920,0 a 1.980,0	0,2075	15M0G7W/20M0G7W	LTE	QPSK/16QAM
2.500,0 a 2.570,0	0,2148	5M00G7W/10M0G7W	LTE	QPSK/16QAM
2.500,0 a 2.570,0	0,2148	15M0G7W/20M0G7W	LTE	QPSK/16QAM

Incorpora transceptor de radiação restrita.

Faixa de Frequências Tx (MHz)	Potência Máxima de Saída (W)	Designação de Emissões	Tecnologias	Tipo de Modulação
2.400,0 a 2.483,5	0,16734	10M2X9D	SEQÜÊNCIA DIRETA	DBPSK, DQPSK, CCK
2.400,0 a 2.483,5	0,39184	16M4X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM
2.400,0 a 2.483,5	0,41975	17M6X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM
2.400,0 a 2.483,5	0,26958	35M9X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM

Faixa de Frequências Tx (MHz)	Potência Máxima de Saída (W)	Designação de Emissões	Tecnologias	Tipo de Modulação
5.150,0 a 5.350,0	0,09983	24M1X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM
5.150,0 a 5.350,0	0,09485	28M8X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM
5.150,0 a 5.350,0	0,1145	43M9X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM
5.150,0 a 5.350,0	0,16353	81M4X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM
5.725,0 a 5.850,0	0,21054	16M4X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM
5.725,0 a 5.850,0	0,22288	17M6X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM
5.725,0 a 5.850,0	0,15116	35M8X9D	OFDM	BPSK, QPSK, 16QAM, 64QAM

O produto Advantech modelo ICR-3232W opera também nas tecnologias 802.11 a/b/g/n-20MHz/n-40MHz/ac80MHz com as características da tabela abaixo.
Na faixa de frequência de 5150,0 MHz a 5350,0 MHz a potência, na tabela, acima refere-se a potências médias e.i.r.p.
Máximas taxas de transmissão nas tecnologias 802.11: 11 Mbps (802.11b); 54 Mbps (802.11a/g); 72 Mbps (802.11n 20MHz); 150 Mbps (802.11n-40MHz); 300 Mbps (802.11ac-80MHz).
Máximo ganho das antenas externas nas tecnologias 802.11a/b/g/n-20MHz/n-40MHz/ac-80MHz: 8,01 dBi.
Ensaio de SAR não aplicável: o equipamento não é terminal portátil.
Comments

Na instalação do produto, devem ser observadas as condições de uso conforme estabelecido no Regulamento sobre Equipamentos de Radiocomunicação de Radiação Restrita.

Constitutes an obligation of the manufacturer or supplier of the product in Brazil to identify all approved products with Anatel's mark before its distribution to the market, as well as observe and maintain the technical characteristics which motivated the original certification.

The information in this Approval Certificate can be confirmed in the Certification and Approval Management System - SCH, available on Anatel's website. (www.anatel.gov.br).

Secundino da Costa Lemos
Gerente de Certificação e Numeração - substituto