

EU - DECLARATION OF CONFORMITY

EU - KONFORMITÄTSERKLÄRUNG

Name and Address of Manufacturer

Name und Anschrift des Herstellers

Bachmann electronic GmbH
Kreuzäckerweg 33
6800 Feldkirch
Austria

This declaration of conformity is made under the sole responsibility of the manufacturer.
Diese Konformitätserklärung erfolgt in der alleinigen Verantwortung des Herstellers.

Product identification

Produktbezeichnung

M1 Series

M1 Serie

EMC-Directive:

EMV-Richtlinie:

2014/30/EU

Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility, OJ L 96, 29.3.2014, p. 79–106

Richtlinie 2014/30/EU des Europäischen Parlaments und des Rates vom 26. Februar 2014 zur Harmonisierung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit, ABl. L 96 vom 29.3.2014, S. 79–106

RoHS-Directive:

RoHS-Richtlinie:

2011/65/EU

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, OJ L 174, 1.7.2011, p. 88–110

Richtlinie 2011/65/EU des Europäischen Parlaments und des Rates vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten, ABl. L 174 vom 1.7.2011, S. 88–110

2015/863

Commission delegated directive (EU) 2015/863 of 31 March 2015 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances

Delegierte Richtlinie (EU) 2015/863 der Kommission vom 31. März 2015 zur Änderung von Anhang II der Richtlinie 2011/65/EU des Europäischen Parlaments und des Rates hinsichtlich der Liste der Stoffe, die Beschränkungen unterliegen, ABl. L 137 vom 4.6.2015, S. 10–12

The mentioned manufacturer hereby declares that these products are conform to the fundamental health- and safety requirements stipulated in the directives concerning compatibility issued by the EC- Council to ensure conformance to legal regulations in member countries of 2014/30/EU and 2011/65/EU including the rule for Annex II (Directive 2015/863).

Der genannte Hersteller erklärt hiermit, dass diese Produkte den wesentlichen Gesundheits- und Sicherheitsanforderungen entsprechen, die in der Richtlinie des Rates zur Angleichung der Rechtsvorschriften der Mitgliedsstaaten über die Verträglichkeit nach 2014/30/EU und über die Beschränkung der Verwendung gefährlicher Stoffe in Elektro- und Elektronikgeräten nach 2011/65/EU, inkl. der Änderung zum Anhang II (Richtlinie 2015/863), festgelegt sind.

Feldkirch,
Jan 08th, 2024


D. Pfeifer
Director Technology


B. Zangerl
Chief Executing Officer

The product met its published specifications at the time of extradition and has been produced in compliance with the Quality System certified according to EN ISO 9001:2015.
Das Produkt erfüllt zum Zeitpunkt der Auslieferung die veröffentlichten Spezifikationen und wurde unter Einhaltung des zertifizierten Qualitätssystem nach EN ISO 9001:2015 gefertigt.

Annex to Product identification, M1 Series / Anhang zur Produktbezeichnung, M1 Serie

Product names:

Produktnamen:

ACR2xx/x, AI2xx/xx, AIC2xx/x, AIO2xx/xx, AP211, AO2xx/xx, BEM2xx, BES2xx/x, BS2xx/xx, CF200/xxxx, CFA 200/xxx, CFast Card xxGB, CPC2xx/x, CM202, CNT204/x, CS200/x, DA3284-C, DI2xx/xxx, DIOxx-xx, DIO2xx/x, DIO2xx-C, DIOxx-C, DMS202, DNM201, DO2xx/xx, DPM200, ECL211/x, ECS2xx, EM2xx, ERS2xx, ES200/xx, FCS2xx/x, FM2xx, FS2xx/xx, GIO2xx/x, HUB204/x, IOP201, ISI202/x, ISI222/x, LM201, LM20, M1-SET, M1-STG, MC2xx/xx, MBUS2xx, ME20x/xxx, MH2xxx, MP2xx/xx, MPx2xx/xx, MX2xx/xx, NT25x/xx, PAS2xx, PCC20x/xx, PCFS212, PCM2xx, PN23, PTAI216, PVA20x, PWM202, RS204/x, S201, SAI205, SCT2xx, SDx2xx, SEM201, SFS2xx-C, SLC284, SWI2xx/x, TCO2xx-C, TI214/x, TTL264, USB Dongle xxx, USB Flash Drive xxx, VP200/x

x... Stand for any number, letter or can be optional.
Product names may be followed by CC.

Annex to EMC-Directive / Anhang zur EMV-Richtlinie

This evidence includes the following standards:

Dieser Nachweis beinhaltet folgende Normen:

Specifications: EN 61000-6-4:2007 + AMD1:2011; IEC 61000-6-4:2018

Electromagnetic compatibility (EMC) Part 6-4 Generic standards - Emission standard for industrial environments

Basic: EN 55016-2-3:2017 + A1:2019 + A2:2023

CISPR 16-2-3:2016 + AMD1:2019 + AMD2:2023

Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements

30MHz – 230MHz, Q-Peak limit 40dBµV/m, 10m distance, SAC

230MHz – 1GHz, Q-Peak limit 47dBµV/m, 10m distance, SAC

1GHz – 3GHz, Average limit 56dBµV/m, 3m distance, FAR

Peak limit 76dBµV/m, 3m distance, FAR

3GHz – 6GHz, Average limit 60dBµV/m, 3m distance, FAR

Peak limit 80dBµV/m, 3m distance, FAR

Basic: EN 55016-2-1:2014 + A1:2017; CISPR 16-2-1:2014 + AMD1:2017

Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements

150kHz – 500kHz, Q-Peak limit 79dBµV

Average limit 66dBµV

500kHz – 30MHz, Q-Peak limit 73dBµV

Average limit 60dBµV

150kHz – 500kHz, Q-Peak limit 53dBµA – 43dBµA

Average limit 40dBµA – 30dBµA

500kHz – 30MHz, Q-Peak limit 43dBµA

Average limit 30dBµA

Specifications: EN 61000-6-2:2005; IEC 61000-6-2:2016

Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments

Basic: EN 61000-4-2:2009; IEC 61000-4-2:2008

Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test

±4kV, ±2kV contact discharge, ≥ 10 per polarity and test point
±8kV, ±4kV, ±2kV air discharge, ≥ 10 per polarity and test point

Basic: EN 61000-4-3:2020; IEC 61000-4-3:2020

Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency electromagnetic field immunity test

80MHz-1GHz: 10V/m, 1.4GHz - 6GHz: 3V/m
Modulation: AM, Modulation depth: 80 %, Modulation frequency: 1 kHz

Basic: EN 61000-4-4:2012; IEC 61000-4-4:2012

Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test

Signal / Control lines all interfaces >3 m: ±1kV, 5ns/50ns, 5 & 100kHz
AC/DC mains inputs and outputs: ±2kV, 5ns/50ns, 5 & 100kHz

Basic: EN 61000-4-5:2014 + A1:2017; IEC 61000-4-5:2014 + AMD1:2017

Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test

Signal/Control lines>30m: Line(s) to Ground: ±0,5kV, ±1kV
DC mains input: Line to Line: ±0,5kV; Line(s) to Ground: ±0,5kV, ±1kV
AC mains input: Line to Line: ±0,5kV, ±1kV; Line(s) to Ground: ±0,5kV, ±1kV, ±2kV
Angle (AC): 0°, 90°, 180°, 270°

Basic: EN 61000-4-6:2023; IEC 61000-4-6:2023

Electromagnetic compatibility (EMC) Part 4-6: Testing and measuring techniques - Immunity to conducted disturbances, induced by radio-frequency fields

Frequency range: 150kHz - 80MHz, 10V
Modulation: 80% AM, 1kHz

Basic: EN 61000-4-8:2010; IEC 61000-4-8:2009

Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test

Frequency: 50Hz / 60Hz, 30A/m, Field direction: X, Y, Z

Basic: EN 61000-4-9:2016; IEC 61000-4-9:2016

Electromagnetic compatibility (EMC) Part 4-9: Testing and measuring techniques - Impulse magnetic field immunity test

Frequency: 50Hz, 1000A/m, Field direction: X, Y, Z

Annex to RoHS-Directive / Anhang zur RoHS-Richtlinie

The directive concerns the following substances:

Es handelt sich bei der Richtlinie um folgende Substanzen:

- Blei (Pb)
- Quecksilber (Hg)
- Cadmium (Cd)
- Sechswertiges Chrom (Cr)
- Polybromierte Biphenyle (PBB)
- Polybromierte Diphenylether (PBDE)
- Di(2-ethylhexyl)phthalat (DEHP)
- Butylbenzylphthalat (BBP)
- Dibutylphthalat (DBP)
- Diisobutylphthalat (DIBP)