

b-ISOBUS CAN Gateway

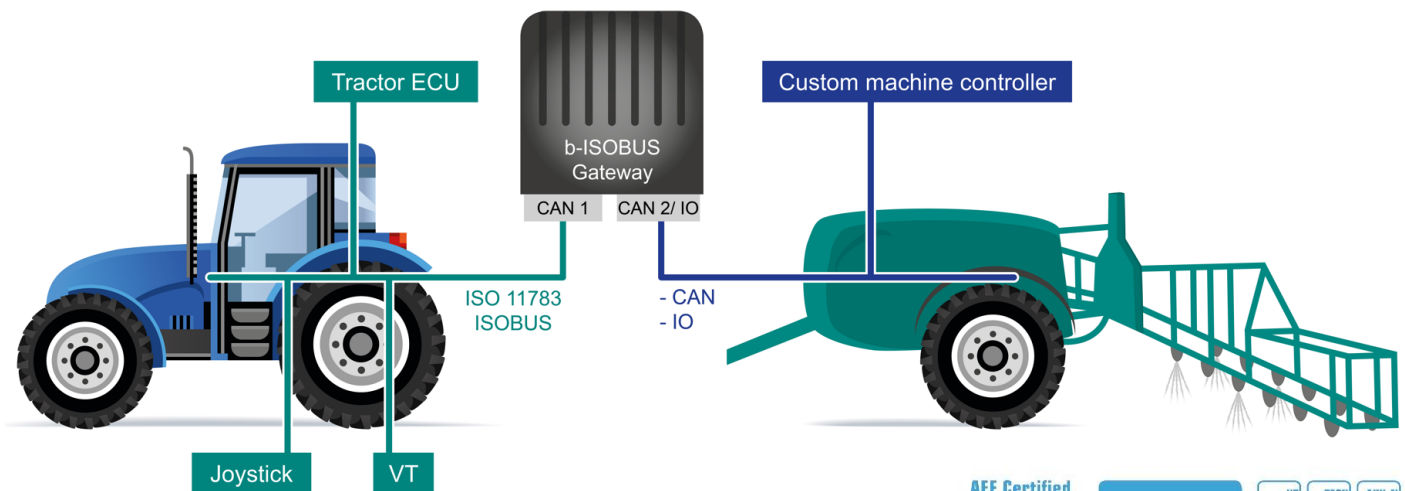


Illustration 1: b-ISOBUS CAN Gateway



Product overview

The b-ISOBUS CAN Gateway provides a simple way to get your agricultural implement into the ISOBUS world without the need of changing your machine controller.

The gateway has two CAN interfaces, one used for ISOBUS communication with the tractor's ISOBUS VT and the second CAN interface to connect to the existing, proprietary machine controller.

There are two variants of the gateway:

- The b-ISOBUS Micro CAN Gateway based on b-CANCubeMicro hardware with 2 CAN interfaces.
- The b-ISOBUS CAN Gateway based on b-CANCubeMini hardware with 2 CAN interfaces and up to 11 parameterizable in-/outputs.

Both gateway hardware devices are AEF certified and use the ISO 11783-compliant b-ISOBUS stack.

The gateway makes the entire Virtual Terminal client functionality as well as the AUX-N functionality available to any existing controller with CAN communication on board.

The b-ISOBUS Stack is compatible with any standards-based ISOBUS object pool, generated by commercially available tools. The stack is also capable of automatic scaling of the masks for every display size.

Further functionalities as Task Controller capabilities are possible. For example slurry applicator or fertilizer with rate/section control (up to 16 sections). Please ask us for more details.

Configuration workflow

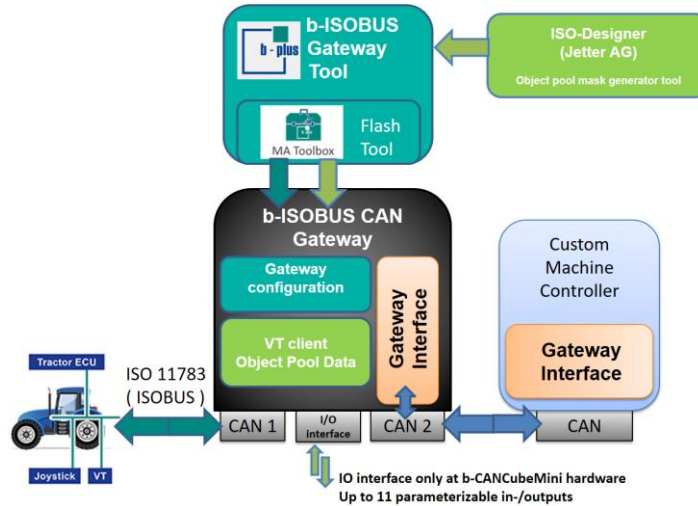


Illustration 2: Workflow configuration

The system provides several parameters to configure the b-ISOBUS CAN Gateway. The user has to build a standards-based ISOBUS VT client Object Pool for the Virtual Terminal functionality. Both, the configuration and the object pool data, are transferred to the b-ISOBUS CAN Gateway using a b-plus download tool.

On the proprietary machine controller system the gateway interface (CAN communication) has to be implemented.

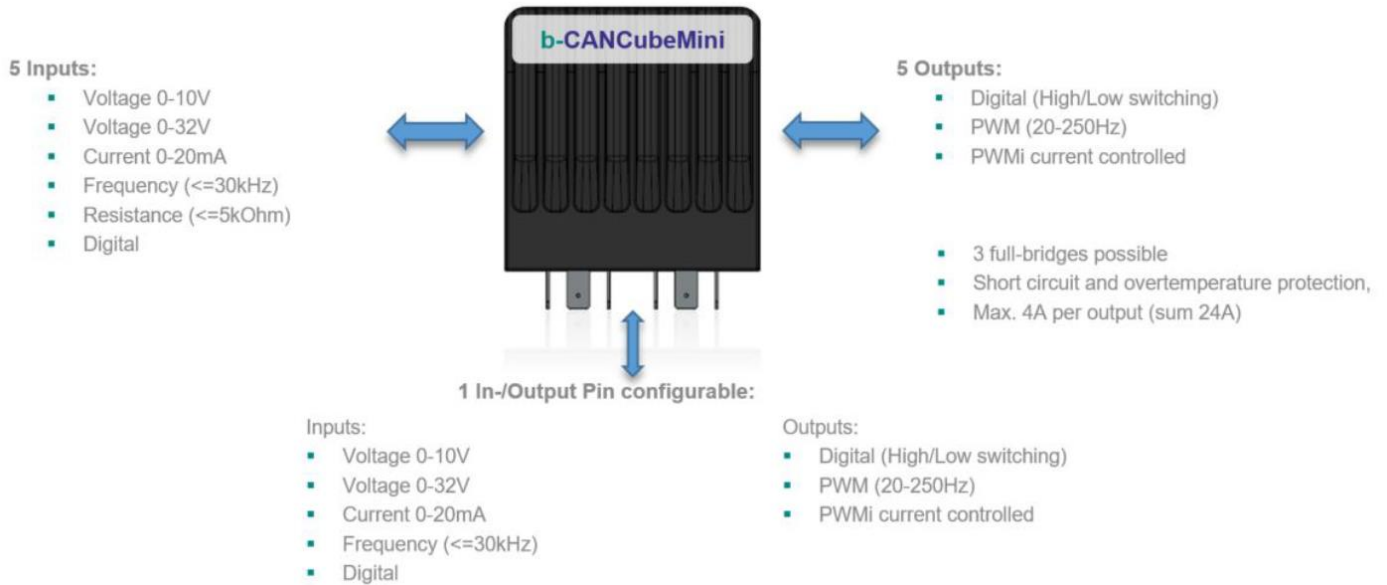


Technical data

	b-ISOBUS CAN Gateway	b-ISOBUS Micro CAN Gateway
Operating temperature	-40 ... +85°C	-40 ... 80°C
Protection Class	IP54	IP67
Qualification	CE / E-Mark / AEF ISO11783	CE / E-Mark / AEF ISO11783
Dimensions	71 x 73 x 32 mm (WxHxD)	104 x 29 x 72 mm (WxHxD)
Housing	Aluminum, black anodized	Plastic, PA12, black
Mounting	Twin automotive relay, 2x 9-pole Back side 2x M3 inner thread Optional: Clamp for rail mount 35mm	4x 4mm screw hole
Bus interfaces	CAN1: CAN-Bus (High-Speed) according to ISO 11898-2 CAN2: CAN-Bus according to ISO11783 ISOBUS	CAN1: ISOBUS side - CAN-Bus according to ISO11783 ISOBUS CAN2: Implement side - CAN-Bus (High-Speed) according to ISO 11898-2 with internal resistance 120Ohm.
Power supply	8 ... 32 V DC	8 ... 32 V DC
Inputs / Outputs	5 parameterizable inputs 5 parameterizable outputs 1 parameterizable in-/output	1 implement supply output (non-switchable) max. 1.5A

Alle Daten bei 25°C Umgebungstemperatur, falls nicht anders angegeben. / All data at nominal input and 25° C ambient temperature, if not marked otherwise. ▪ Alle Daten dienen nur Informationszwecken und sind nicht als zugesicherte Eigenschaften aufzufassen. / All data for information purposes only, no assured characteristics. ▪ Technische Änderungen ohne vorherige Ankündigung sowie Irrtümer vorbehalten. / Technical modifications without notice and errors reserved. ▪ Belastung mit Extremwerten über einen längeren Zeitraum kann die Zuverlässigkeit beeinflussen. / Strain with extreme values for a longer period may affect the reliability. ▪ Alle Trademarks und Logos sind Eigentum der jeweiligen Unternehmen. / All trademarks and logos are property of the concerning companies. © b-plus mobile control GmbH • Oct 21 • Version 2.0

b-ISOBUS CAN Gateway - input-/output overview



Order-no.

name

2001894	b-ISOBUS CAN Gateway training
b-ISOBUS CAN Gateway:	(b-CANCubeMini hardware with in-/outputs)
B20100-CCM-001-IGCN	b-ISOBUS CAN Gateway
B20100-CCM-011-IGCN	b-ISOBUS CAN Gateway TC rate/section control slurry applicator
B20100-CCM-012-IGCN	b-ISOBUS CAN Gateway TC rate/section control fertilizer
B20100-CCM-001-S401	b-ISOBUS CAN Gateway Starter-Set
B20100-CCM-011-S401	b-ISOBUS CAN Gateway TC section control slurry applicator Starter-Set
b-ISOBUS Micro CAN Gateway:	(b-CANCubeMicro hardware)
B20400-CGW-001-0001	b-ISOBUS Micro CAN Gateway – without cables
B20400-CGW-001-9901	b-ISOBUS Micro CAN Gateway TC slurry – without cables
B20400-MIS-100-YYYY	CAN Cable ISOBUS – left side – open end – YYYY = cable length in cm (0200=200cm)
B20400-MIS-200-YYYY	CAN Cable IMPLEMENT – right side – open end - YYYY = cable length in cm (0200=200cm)