

IoTize Software Ecosystem

Complete Duetware solution and tool offer for instant mobile and cloud integration



For wireless retrofit to support connection of industrial systems with mobiles and the cloud, IoTize provides a complete software ecosystem that includes our embedded Duetware (IwM2M, JVM), utility apps, IoT App Creator and App Generator, Java tools, MQTT, API, project examples and more.

This ecosystem speeds wireless integration, creation of human-machine interfaces and implementation of advanced features with minimal expertise and design effort.

IoTize provides a complete solution that transforms long projects into a simple task that delivers immediate results.

Our **industrial wireless-fieldbus adapters** include our **embedded software** which pre-implements all the features that are required in a connected device. System engineers simply select features and instantly add secure, reliable wireless in their existing installations and equipment.

Then engineers create human-machine interfaces rapidly and easily in a drag-and-drop, WYSIWYG environment called **IoT App Creator**. With it, engineers can create interfaces with elaborate, responsive displays and controls in just minutes. These user interfaces run equally on mobile devices or as cloud dashboards.

Once the interface is tested, designers create mobile apps with just a click of a button using our automatic **App Generator**. They can either directly build the output code into a signed app, or modify it to refine their interface even further before publishing.



Tapioca Wireless Adapters

Immediate retrofit of industrial equipment with mobiles & cloud

Tapioca fieldbus-wireless adapters support on-site and remote **Configuration, Monitoring and Surveillance** of industrial equipment. They offer wireless technologies that meet a range of requirements and a software ecosystem for instant creation of mobile human-machine interfaces (HMI) and integration with the cloud.

Tapioca retrofit existing equipment by connecting directly to industry-standard **serial fieldbus** (typically Modbus® ports). Communication, security and access control features require only a simple configuration. Once configured, our software tools automatically generate customized HMI as a mobile app. Our app generator is based on cross-platform tools for iOS, Android, and Windows.

Devices are available in both DIN rail and IP67 casings.



Tapioca industrial wireless adapters

	Wireless Protocols	Wire Connections	Modbus	LwM2M ¹	Virtual Machine ²	IP67	Typical Uses
TpC-FS2W123	NFC, BLE ³ , WiFi	RS232	●	●	●	○	✍️ 🔍 🔭
TpC-FS4W123	NFC, BLE ³ , WiFi	RS485	●	●	●	○	✍️ 🔍 🔭
TpC-FS0W123	NFC, BLE ³ , WiFi	USB device	●	●	●	○	✍️ 🔍 🔭
TpC-FC0W123	NFC, BLE ³ , WiFi	CAN	○	●	●	○	✍️ 🔍 🔭
TpC-FE0W123	NFC, BLE ³ , WiFi	Ethernet	●	●	●	○	✍️ 🔍 🔭
TpC-PS2W123	NFC, BLE ³ , WiFi	RS232	●	●	●	●	✍️ 🔍 🔭
TpC-PS4W123	NFC, BLE ³ , WiFi	RS485	●	●	●	●	✍️ 🔍 🔭
TpC-PS0W123	NFC, BLE ³ , WiFi	USB device	●	●	●	●	✍️ 🔍 🔭
TpC-PC0W123	NFC, BLE ³ , WiFi	CAN	○	●	●	●	✍️ 🔍 🔭
TpC-PE0W123	NFC, BLE ³ , WiFi	Ethernet	●	●	●	●	✍️ 🔍 🔭
TpC-PE1W123	NFC, BLE ³ , WiFi	Ethernet, RS485	●	●	●	●	✍️ 🔍 🔭
TpC-PS2L123	NFC, BLE ³ , WiFi, LoRa	RS232	●	●	●	●	✍️ 🔍 🔭
TpC-PS4L123	NFC, BLE ³ , WiFi, LoRa	RS485	●	●	●	●	✍️ 🔍 🔭
TpC-PS0L123	NFC, BLE ³ , WiFi, LoRa	USB device	●	●	●	●	✍️ 🔍 🔭
TpC-PC0L123	NFC, BLE ³ , WiFi, LoRa	CAN	○	●	●	●	✍️ 🔍 🔭
TpC-PE0L123	NFC, BLE ³ , WiFi, LoRa	Ethernet	●	●	●	●	✍️ 🔍 🔭
TpC-PE1L123	NFC, BLE ³ , WiFi, LoRa	Ethernet, RS485	●	●	●	●	✍️ 🔍 🔭
TpC-PS2M123	NFC, BLE ³ , WiFi, LTE	RS232	●	●	●	●	✍️ 🔍 🔭
TpC-PS4M123	NFC, BLE ³ , WiFi, LTE	RS485	●	●	●	●	✍️ 🔍 🔭
TpC-PS0M123	NFC, BLE ³ , WiFi, LTE	USB device	●	●	●	●	✍️ 🔍 🔭
TpC-PC0M123	NFC, BLE ³ , WiFi, LTE	CAN	○	●	●	●	✍️ 🔍 🔭
TpC-PE0M123	NFC, BLE ³ , WiFi, LTE	Ethernet	●	●	●	●	✍️ 🔍 🔭
TpC-PE1M123	NFC, BLE ³ , WiFi, LTE	Ethernet, RS485	●	●	●	●	✍️ 🔍 🔭

Table Notes:

- 1. LwM2M requires only the user's configuration and can be associated with a branded, generated mobile app.
- 2. Virtual Machine (VM) allows users to add code that can perform simple edge computing, sending alarms, etc.

- 3. BLE - Bluetooth Low Energy