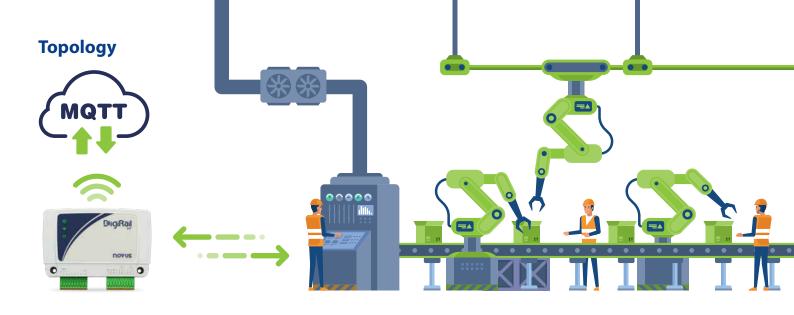


DigiRail IoT is a **gateway with inputs and outputs** that meets the demands of companies seeking to connect their sensors and actuators to the Internet of Things. **DigiRail IoT** is available in two versions: **Wi-Fi** and **Ethernet**. The Wi-Fi version has a range of up to 100 meters, while the Ethernet version offers transmission speeds of up to 100 Mbps.

DigiRail IoT provides an **RS485** connection for operation as a gateway, modbus master or slave, with the ability to monitor and publish up to 8 variables from other devices, via the **MQTT** protocol or **Modbus TCP/IP**. Its **message management system** also guarantees security in data traffic. It is configured using NXperience software and is connected to the main market clouds, such as Google Cloud, Microsoft Azure, Amazon AWS, **NOVUS Cloud** or any other compatible IoT cloud platform. It also offers support, via **NXperience Trust** software, for validatable systems according to **FDA 21 CFR part 11 and GMP** (Good Manufacturing Practice).





Technical Specifications

Input Channels	6 digital inputs and 2 analog inputs		
Remote Channels	8 configurable channels of up to 64-bits.		
Compatible Analog Signals	0-5 V, 0-10 V, 0-20 mA, 4-20 mA		
Analog Input Resolution	15 bits		
Analog Channels Input Impedance	mA: 15 Ω + 1,5 V V: 1 MΩ		
Accuracy	0.15 % (F.S.)		
Digital Input	Logical Level		Logical level "0": < 0.5 V Logical level "1": > 3 V
	Maximum Voltage		30 V
	Input Impedance		5 kΩ
	Input Current @ 30 Vdc (Typical)		7 mA
	Maximum Frequency (Square wave)		Dry Contact: < 10 Hz PNP: 3 kHz NPN: 3 kHz
	Minimum Pulse Length		Dry Contact: 50 ms PNP: 150 us NPN: 150 us
Digital Output	2 digital NPN outputs Maximum current that can be switched at the output: 700 mA		
Buffer Capacity	 7000 logs with 1 analog input enabled* 1800 logs with 2 analog inputs enabled and the 6 digital inputs in Count mode* 		
Communication Interfaces	DigiRail IoT – ETH	USB 2.0 Interface Ethernet Interface (10/100 Mbps) with RJ45 connector RS485 communication interface with Modbus RTU protocol in Gateway mode	
	DigiRail IoT – WRL	Wi-F 2.40 WP/ WP/ and • RS48 inte	2.0 Interface Fi Interface (802.11 b/g/n GHz), supporting A-Personal (PSK) A/WPA2 TKIP/AES/TKIP AES encryption B5 communication rface with Modbus RTU cocol in Gateway mode

		,	
LEDs	 1 x Status LED 1 x Local Network Connection LED 1 x Broker MQTT Connection LED 		
Software	NXperience (via USB or TCP/IP network for desktops and notebooks).		
Power Supply	Power Supply	Wi-Fi Model: Consumption: 70 mA @24V Consumption: 160 mA @12V	
		Ethernet Model: Consumption: 50 mA @24V Consumption: 120 mA @12V	
	Batteries	CR2032 battery for internal clock retention	
Dimension	129 mm x 142 mm x 38 mm		
Mounting	DIN rail or screw mounting.		
Environment	Operating Temperature: -20 to 60 °C (-4 to 140 °F) Storage Temperature: -20 to 60 °C (-4 to 140 °F) Humidity: 5 to 95 % RH (without condensation)		
Housing	ABS+PC		
Protection Index	IP20		
Certification	ANATEL (09260-20-07089), CE, UKCA, FCC, Compatible with IEC 60068-2-6 (2007), Contains FCC ID: 2ADHKATWINC1500, Contains IC: 20266-WINC1500PB.		

* None of the cases consider event log.

