

WE CONNECT
YOUR IDEAS





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Routers integrate multiple connectivity features (BLE, 868 MHz, digital I/O, Wi-Fi, telephone ports) for diverse industrial applications, with SMS and Cloud tools for easy remote management.

MODEM

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Serial modems enable reliable remote communication and control for DATA and SMS applications in various environments.

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Predictive maintenance uses sensors and AI to analyze data, detect anomalies, and prevent failures, ensuring timely interventions with minimal production impact.

B810 Group

Digicom is a brand with over 45 years of experience in the development and handling of high-tech products.

In 2017, the Digicom company was merged with the B810 Group, creating a state-of-the-art company capable of developing smart and complex projects.

We offer our experience in a complete range of **"Connected solutions"** in the areas of: Telecommunication, IoT, Lift and Smart Energy, with project design, manufacturing, Cloud, logistics and services.

"If you don't innovate constantly, you are no longer the one who is chased, but the one who chases."

Massimiliano Paparcone
 B810 GROUP PRESIDENT



ISO 9001: 2015 - Cert. N. 17713
 ISO 14001: 2015 - Cert. N. 27060
 IATF 16949: 2016 - Cert. IATF N. 0405736

B810 has a Quality and Environmental Management System certified by CERTICUALITY with reference to ISO 9001 and ISO 14001

Technologies

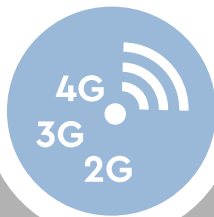


EDGE

Edge to Cloud is the final frontier for shared performance, actions and transferring only important data to the cloud. Linux-based with integrated connectivity (LTE) are able to run specific programmes for smart building, lift or escalator.

4G / 3G / 2G

Gateways and Routers for internet and cloud connection. Voice and Data with high-speed connection with LTE technologies.



BLE

Bluetooth Low Energy (BLE) is a wireless standard technology. We develop special sensors to connect with Gateway and Router or via APP to set up and realise an IoT solution. The low energy consumption allows the rechargeable battery to last for several years.

LoRa

Wireless technologies with low power consumption that can bridge long distances. We use the following to connect sensors (Air quality, Temperature, VOC, ect). We develop sensors and gateways for transmission to the cloud.

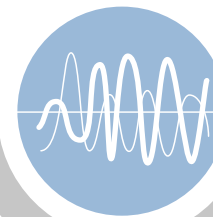


Ultra Low Power

Technologies that can reduce the power consumption of devices. With suitable battery types, the service life of the devices can be extended up to several years (more than 10). Ultra-low power management enables a completely new generation of devices that can be connected to the Internet.

868 MHz Radio

Radio frequency with a proprietary protocol that is used for Digicom sensors and gateways. Low power consumption of the battery.



MESH Networks

Technologies for the creation of device networks (typically IoT sensors) to provide low impact and low cost coverage.

Digicom NETWORK

The Network unit develops solutions for IoT and M2M market, able to connect devices to the internet using cutting edge technologies.

Digicom solutions help customers to solve problems in different applications and market segments as Industry Automation, Lift, Smart Cities and Energy.

In this area you can find Routers, Modems with Cloud to satisfy all the needs with professional and industrial application devices.

We integrate the most important technologies like 4G, 2G, 868 MHz Radio, BLE to offer a complete product portfolio to our customers.

"We support companies to stay competitive on the market through greater production efficiency and better resources management."



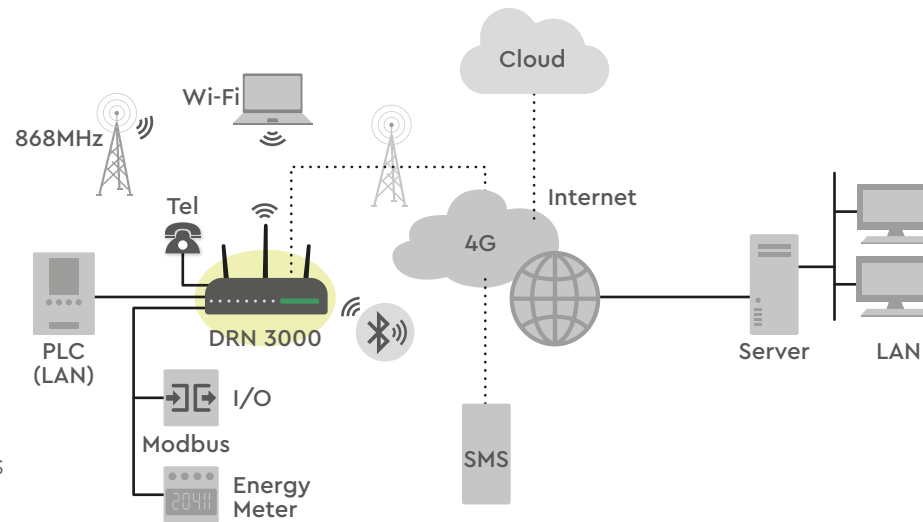
DRN 3000 IoT Router

The DRN 3000 is a component of the advanced multi-role LTE Router family specifically designed for addressing a wide range of Industrial and IoT applications.

Equipped with Wi-Fi, BLE and 868MHz radio interfaces as well as Input/output, Serial ports, Dual SIM and FXS voice ports it is the ideal solution in integrated and complex feature-rich scenarios, capable of providing data, Cloud oriented telemetries and management, phone and emergency calls.

Built-in Battery backup and detachable antennas do offer mission critical efficiency and seamless deployment during installation.

- 1 LAN 10/100 port (8D5893 version only)
- 2 FXS voice ports
- 1 RS232/485 serial port
- 1 Input / 1 Relay Output
- 868MHz radio for sensors
- 802.11n Wi-Fi and BLE 5.0
- BLE 5.0
- MQTT support
- Modbus RTU/TCP support
- Relay actuation on FXS CallerID
- Advanced SMS Manager



Routers are versatile devices designed to meet different connectivity and network management needs, combining multiple functions and interfaces in a single product, such as BLE and 868 MHz wireless sensors, digital I/O, Wi-Fi and telephone ports to cover applications in a wide spectrum of industrial scenarios. Integrated Device Management tools, via SMS and Cloud platform, simplify configuration and remote management.



**8D5893
DRN 3000**



**8D5893NL
DRN 3000NoLAN**



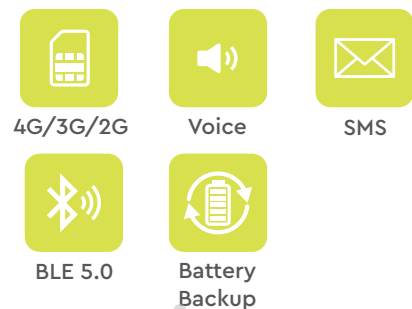
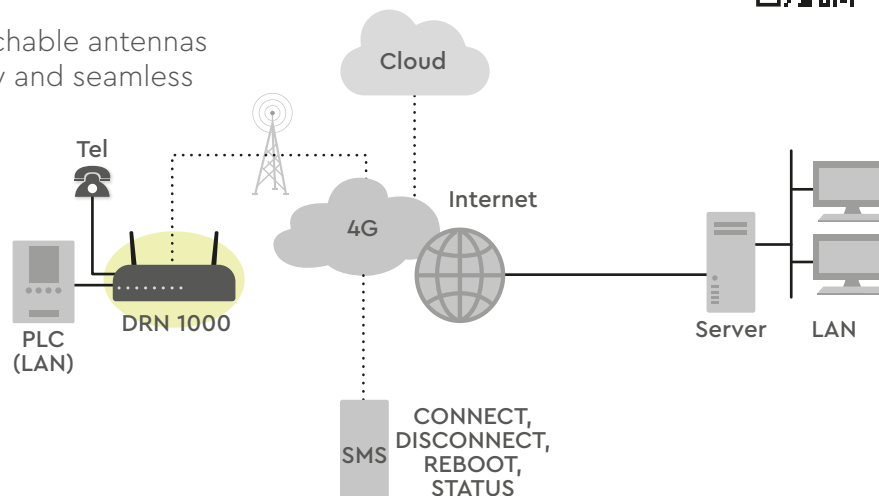
DRN 1000 IoT Router

DRN 1000 is the optimized and cost-effective version of the advanced multi-role LTE Router. It keeps all the powerful software features with the basic hardware equipment.

Equipped with BLE, Dual SIM and FXS voice ports it is the perfect solution in standard application scenarios, capable of providing data, Cloud oriented telemetries and management, phone and emergency calls.

Built-in Battery backup and detachable antennas do offer mission critical efficiency and seamless deployment during installation.

- 1 LAN 10/100 port (8D5893A version only)
- 1 FXS voice ports
- BLE 5.0 Interface
- MQTT Support
- Built-in battery backup
- Advanced SMS Manager



**8D5893A
DRN 1000**



**8D5893ANL
DRN 1000NoLAN**

ROUTER

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Look@INDUSTRY - 8D5906 Sensor

It is a sensor specifically designed to detect the operation of **electric motors**.



Battery operated Bluetooth sensor with 3-axis accelerometer. Designed to be installed on gearbox and motors, able to read and send vibration data to the DRN router series. The data collected is sent to our Cloud.



- 3 Axis Accelerometer
- Bluetooth 5.0 Low Energy
- CR2477 battery, long battery life
- Remote upgradeable

RADIO BUTTON FULL - 8D5898RA Sensor

868MHz radio device capable of remoting wired sensors to the DRN 3000 series.

- 12-24 VDC power supply
- 2 Opto-isolated Inputs
- 2 Digital Outputs
- 1 Pushbutton
- RS485 3-Wire Serial Port



Sensors

DRN 500 – 8D5913



DRN 500 is designed for remote control and monitoring such as PLCs, microcontrollers, input/output devices or Smart Energy meters. It uses state of the art 4G/LTE technology that can offer high connection speeds (up to 150Mbps) through CAT 4 LTE module.

Typical applications cover any scenario that includes communications over LAN, Modbus, RS485 or RS232 serial devices and digital input/output management. MQTT support allows information to be sent to the Cloud for addressing the IoT world.

- 4G CAT 4 module
- 1 RS485/RS232 serial port
- 2 10/100BT ports
- 2 LAN, 1 LAN + 1 WAN
- 1 SIM slot (2FF)
- 1 SIM slot (3FF) for backup
- 1 digital input
- 1 digital output
- Modbus and MQTT support
- External 9–32VDC power supply
- Ethernet WAN with LTE backup
- Remote LAN1 access with LAN2 isolation
- Advanced SMS Manager
- New DIN Rail mount kit



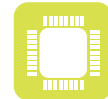
SMS



Modbus



MQTT



Modulo 4G



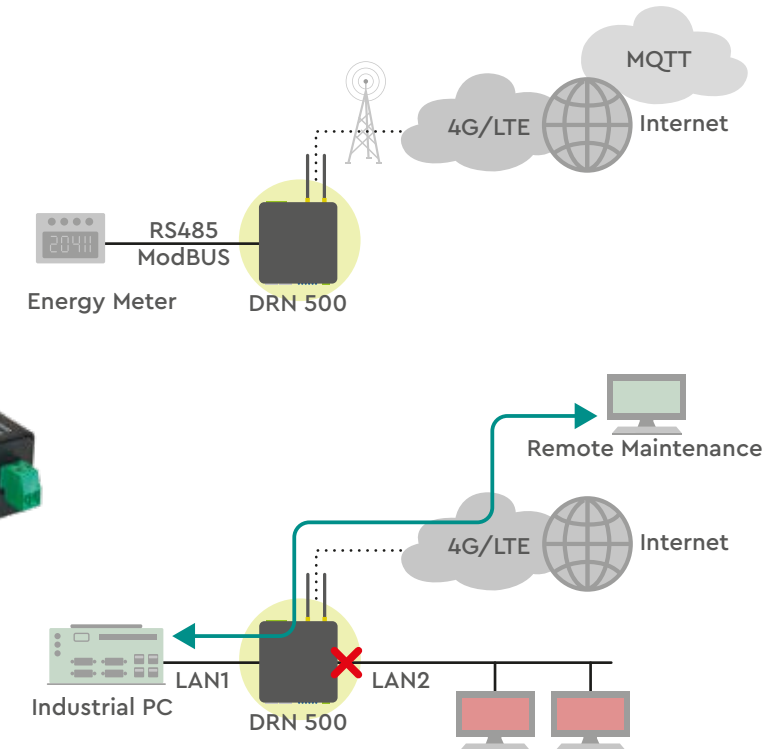
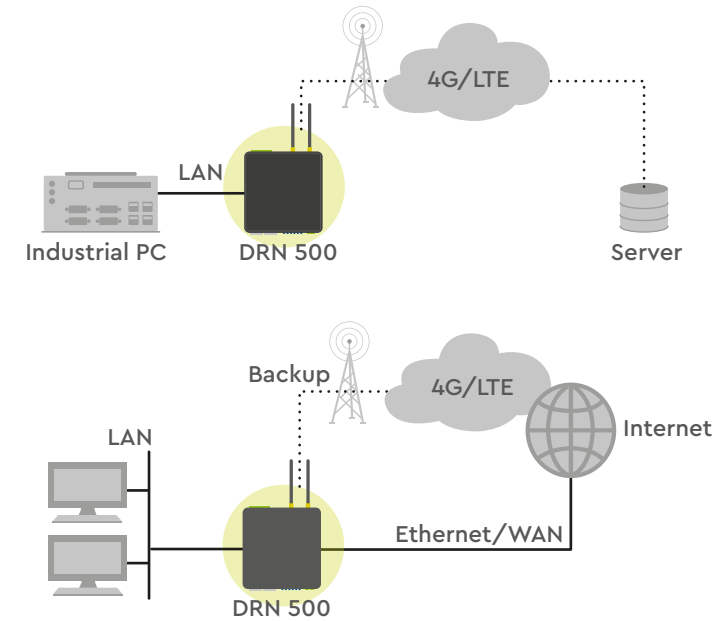
Dual SIM



I/O



USB Type-C



4.5G LITE ROUTE PLUS – 8E4629



4.5G LiteRoute Plus is the LTE Router for the Internet access over 4.5G/LTE mobile network, providing high performance in small business applications.

All Ethernet ports are Gigabit for maximum network efficiency, Wi-Fi Access Point does support 802.11n (300Mbps) and the EWAN port allows interoperability with existing xDSL connection.

Security and Safety is provided through advanced Firewall and Filtering functions.

- Speed up to 300Mbps (Cat6)
- 4.5G/4G/3G Mobile connection with any operator SIM
- 2 4.5G high efficiency external antennas
- 4 Ultra fast Gigabit ports
- Dual Band Wi-Fi (5G/2.4GHz)
- 3 10/100/1000 Mbps LAN ports
- 1 10/100/1000 Mbps Ethernet WAN port
- 12VDC power supply



4.5G



Gigabit LAN



Gigabit WAN



Dual Band Wi-Fi



4G



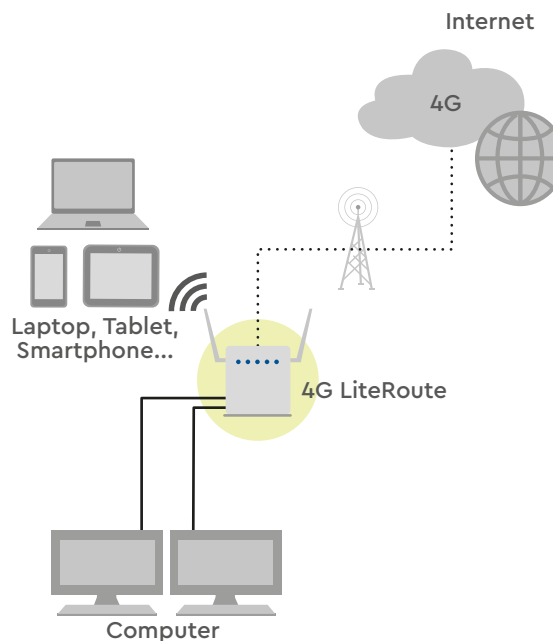
10/100 LAN



Small Size



Wi-Fi



4G LITE ROUTE – 8E4617



4G LiteRoute is a LTE Router for Home and Small office Internet access.

Simple and easy to install, it automatically detects the main Network operators.

Equipped with 2 Ethernet ports and an the 802.11n Wi-Fi Access Point it efficiently connects all your devices.

Security and Safety is provided through advanced Firewall and Filtering functions.

- 4G/LTE Router
- 4G/3G mobile connection with any operator
- 2 High gain 4G antennas
- 802.11n Wi-Fi (2.4GHz)
- 2 10/100 LAN ports
- 12VDC power supply

ROUTER | Industrial business



MAIN FEATURES	DRN 1000 – 8D5893A DRN 1000NL – 8D5893ANL	DRN 3000 – 8D5893 DRN 3000NL – 8D5893NL	DRN 500 8D5913
ENGINE	4G/3G/2G	4G/3G/2G	4G/3G/2G
MAX SPEED	Cat 4 150M/50M	Cat 4 150M/50M	Cat 4 150M/50M
VoLTE	YES	YES	NO
SIM	2 Mini SIM (2FF)	2 Mini SIM (2FF)	1 Mini SIM (2FF)
ANTENNAS	2 SMA F LTE	2 SMA F LTE 1 SMA M Wi-Fi	2 SMA F LTE 1 SMA M Wi-Fi
HOUSING	Metal	Metal	Metal
POWER SUPPLY	9–32 VDC 1,5A	9–32 VDC 1,5A	9–32 VDC 1,5A
BATTERY BACK-UP	YES	YES	NO
TEMPERATURE	-20° ÷ +60°C	-20° ÷ +60°C	-10° ÷ +70°C
INTERFACE	1 LAN 10/100BT or 1 USB (NoLAN version) 1 Voice Ports FXS	1 LAN 10/100BT or 1 USB (NoLAN version) 2 Voice Ports FXS 1 Digital IN 1 Relays OUT (NC / NO) 1 Serial port RS232/RS485	2 10/100BT 2 LAN / 1 LAN + 1 WAN 1 Digital IN 1 Digital OUT 1 Serial port RS232/RS485
WIRELESS INTERFACE	Bluetooth 5.0	Bluetooth 5.0 868 MHz (for sensors) Wi-Fi 802.11 b/g/n	
REMOTE	MQTT / SMS	MQTT / SMS	MQTT / SMS
ModBus	NO	YES – RTU/TCP	YES – RTU/TCP
CONNECTION MODE	Auto / Manual / Always ON	Auto / Manual / Always ON	Auto / Manual / Always ON
CONFIGURATION	Web / CLI / Cloud	Web / CLI / Cloud	Web / CLI / Cloud
VPN	YES	YES	YES
OTHER	Periodic Restart Watch Dog / SMS Remote FOTA Upgrade	Periodic Restart Watch Dog / SMS Remote FOTA Upgrade	Periodic Restart Watch Dog / SMS Remote FOTA Upgrade
DEVICE MANAGEMENT	YES	YES	YES
CERTIFICATION	CE, RED, RoHS	CE, RED, RoHS	CE, RED, RoHS
TYPICAL APPLICATIONS	- Industrial IoT applications (IIoT) - Battery backedup network connectivity - Cloud monitored device management - Emergency telephone systems	- Industrial IoT applications (IIoT) - Battery backedup network connectivity - Cloud monitored device management - Emergency telephone systems - Modbus based applications - Relay actuations on CallerId	- Industrial IoT applications (IIoT) - Modbus based applications - Cloud monitored device management



MAIN FEATURES	4.5G LITE ROUTE PLUS 8E4629	4G LITE ROUTE 8E4617
ENGINE	4.5G/4G/3G	4G/3G
MAX SPEED	Cat 6 300M/50M	Cat 4 150M/50M
VoLTE	NO	NO
SIM	1 Micro SIM (3FF)	1 Micro SIM (3FF)
ANTENNAS	2 SMA F LTE	2 SMA F LTE
HOUSING	Plastic	Plastic
POWER SUPPLY	12 VDC 1,5A	12 VDC 1,5A
BATTERY BACK-UP	NO	NO
TEMPERATURE	0° ÷ +45°C	0° ÷ +45°C
INTERFACE	3 LAN 10/100/1000BT 1 WAN 10/100/1000BT	2 LAN 10/100BT
WIRELESS INTERFACE	Wi-Fi 802.11 b/g/n	Wi-Fi 802.11 b/g/n
REMOTE		
ModBus	NO	NO
CONNECTION MODE	Auto / Manual / Always ON	Auto / Manual / Always ON
CONFIGURATION	Web	Web
VPN	NO	NO
OTHER		
DEVICE MANAGEMENT	NO	NO
CERTIFICATION	CE, RED, RoHS	CE, RED, RoHS
TYPICAL APPLICATIONS	Internet connectivity Small business connectivity	Internet connectivity Small business connectivity





DMN 500 is designed for remote terminals and PLCs control applications. It is a USB Modem with 4G/LTE technology able to offer high connection speeds (up to 150Mbps) thanks to the LTE CAT 4 module.

Ideal applications include its use in Linux-based control units and devices. The operating system will recognize the modem through the ttyUSB ports. Regarding the power supply there are different options: it can come through the USB port (supporting at least 1A) or from external source with an extended range of 12–24 VDC.

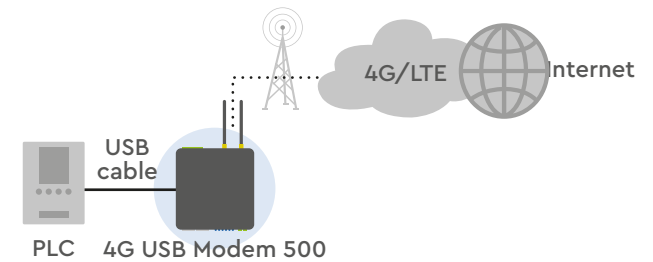
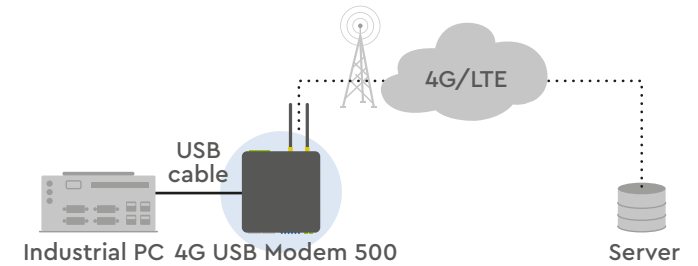
- 4G CAT 4 module
- 1 USB Type C port
- 1 SIM slot (2FF)
- 2 External 4G/2G antennas
- USB 2.0 compatible
- USB or external power supply (9–32VDC)



Modulo 4G

Dual SIM

USB Type-C





Serial modems are devices designed to ensure reliable communications between equipment and systems in industrial and non-industrial environments, ideal for DATA and SMS applications where it is necessary to provide remote access and control of plant controllers.



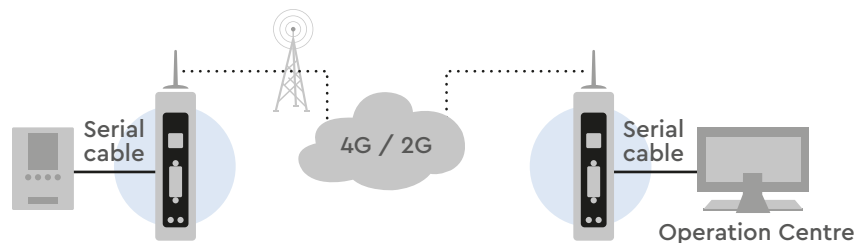
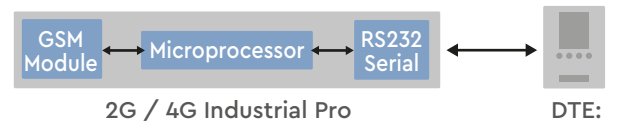
4G



Extended Temp. range



AT Command



4G INDUSTRIAL PRO – 8D5895MDM



4G Industrial Pro is the perfect serial modem and communication Gateway for a wide range of industrial applications.

It is equipped with a dedicated Microprocessor and it provides compatibility and robustness through a firmware that has been developed and evolved over the years.

It provides two serial ports (RS485 and RS232) for the installation in control panels.

The compact size, the integrated DIN rail, the extended power supply range makes it suitable for various remote control and remote management applications.

The remote management via SMS allows the change of settings as well as control over the GSM network quality.

- 4G/LTE CAT1 (800/1800/2600 MHz)
- GSM Quad-band (850/900/1800/1900MHz)
- RS232 and RS485 data interface
- Integrated Full Stack TCP/IP
- Power supply range 9–32 VDC
- DIN rail mounting kit

CELLULAR MODEM – 8D5885



Cellular Modem is the GSM/GPRS solution to be used in various DATA and SMS applications. Equipped, like the industrial versions, with a dedicated Microprocessor allows perfect compatibility since any AT command not included in your legacy software solution can be managed and customized.

Cellular Modem can be used in any application where the DATA connection is essential to remotely access and control peripherals. Thanks to remote SMS management it is possible to change settings and check the GSM signal quality. Through the integrated microprocessor you can also manage the automatic reboot to keep the modem always on-line.

- GSM/GPRS Modem
- Simplified RS232 serial port on RJ45 connector
- Integrated GSM antenna
- Optional external antenna
- GPRS Class 10
- AT commands via serial and SMS
- Automatic Reboot
- 5 VDC power supply



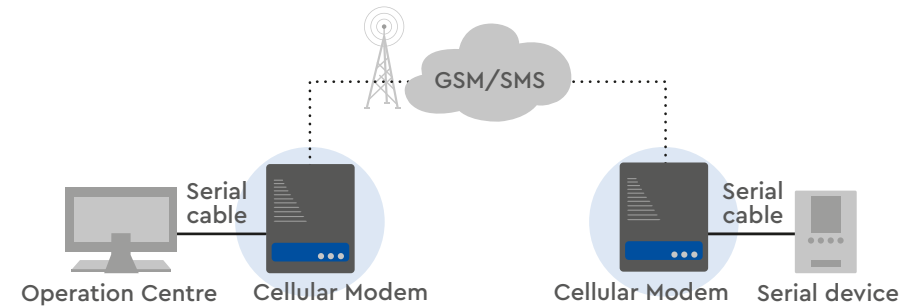
2G



Auto Restart



Setup via SMS



MODEM



MAIN FEATURES	DMN 500 8D5912	4G INDUSTRIAL PRO 8D5895MDM	CELLULAR MODEM 8D5885
ENGINE	4G/3G/2G	4G/2G	2G/3G
MAX SPEED	Cat 4 150M/50M	Cat 4 150M/50M	85.6K
FREQUENCY	2600/2100/1800/900/850/800 MHz	2600/1900/1800/900/850/800 MHz	850/900/1800/1900 MHz
SIM	1 Mini SIM (2FF)	1 Mini SIM (2FF)	1 Mini SIM (2FF)
ANTENNAS	2 SMA F	1 SMA F	Internal 1 external MCX (optional)
HOUSING	Metal	Plastic	Plastic
POWER SUPPLY	From USB or external 9-32 VDC	9-32 VDC	5VDC 1A
MOUNTING	Desktop / DIN Rail	DIN Rail	Desktop
TEMPERATURE	-10° ÷ +70°C	-20° ÷ +55°C	0 + 45°C
INTERFACE	USB Type-C	1 RS232 DB9 1 RS485 3 wire	1 RS232 (TD, RD, GND only)
DATA	IP/SMS	IP/CDS/SMS	IP/CDS/SMS
TCP/IP STACK		Embedded	Embedded
COMMANDS	AT	AT	AT
REMOTE UPGRADE	NO	YES	NO
SMS INFO	YES	YES	YES
DRIVERS	Win 7/10. Linux	Win 2000/XP/7/10, Linux	Win 2000/XP/7/10, Linux
CERTIFICATION	CE, RED, RoHS	CE, RED, RoHS	CE, RED, RoHS
TYPICAL APPLICATIONS	- Industrial grade Modem connectivity - SMS based applications	- Industrial grade Modem connectivity - RS232/485 based applications - Custom modem controlled applications	- Serial port Modem connectivity - SMS based applications



PREDICTIVE MAINTENANCE

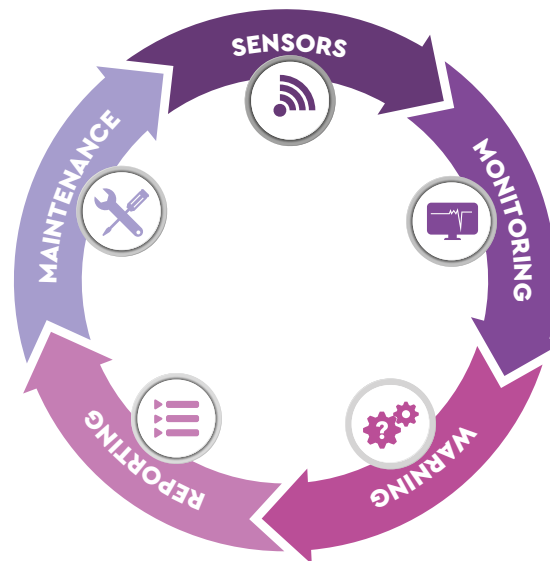
Perfect plant efficiency can only be achieved through careful, experience-based maintenance planning. Today, machine learning and AI systems make it possible to collect data in order to recognise potential process malfunctions and reduce unplanned downtime. Digicom has been working for years to develop specialised algorithms that enable intelligent data collection with a significant reduction in the amount of traffic generated, resulting in substantial cost savings.

Predictive maintenance systems offer a number of advantages:

- Continuous monitoring
- Fault detection and early warning
- Notification of failures in real time
- Extension of the service life of the systems
- Increase and verification of SLA service

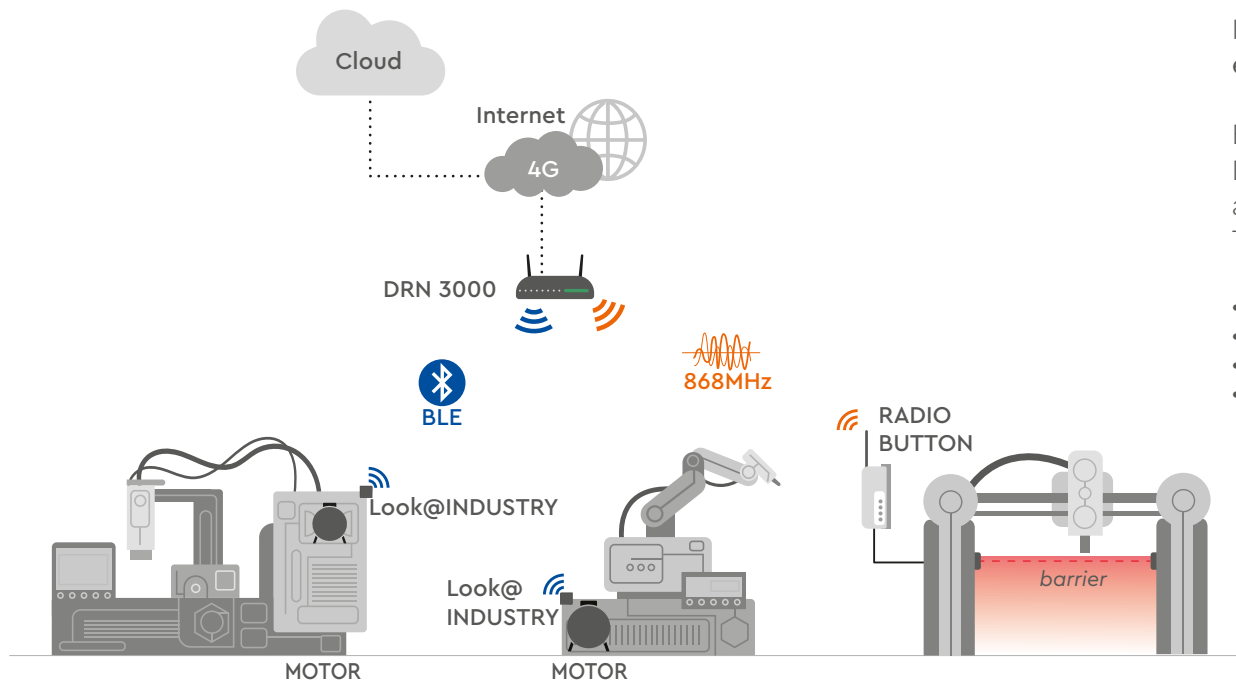
Digicom offers **wireless sensors** that simplify and speed up installation.

Early detection of anomalies is the perfect way to save investments and guarantee service.



The integration of BLE sensors for monitoring motor vibrations in the industrial sector, which are able to detect even the most subtle changes in vibration, enables constant and accurate monitoring.

By transmitting data to the Cloud, the information can be accessed remotely in real time, enabling timely intervention and optimization of maintenance work.



Look@INDUSTRY – 8D5906 Sensor



It is a sensor specifically designed to detect the operation of electric motors.

Battery operated Bluetooth sensor with 3-axis accelerometer. Designed to be installed on gearbox and motors, able to read and send vibration data to the DRN router series. The data collected is sent to our Cloud.

- 3 Axis Accelerometer
- Bluetooth 5.0 Low Energy
- CR2477 battery, long battery life
- Remote upgradeable

RADIO BUTTON FULL – 8D5898RA

868MHz radio device capable of remoting wired sensors to the DRN 3000.

- 12-24 VDC power supply
- 2 Opto-isolated Inputs
- 2 Digital Outputs
- 1 Pushbutton
- RS485 3-Wire Serial Port



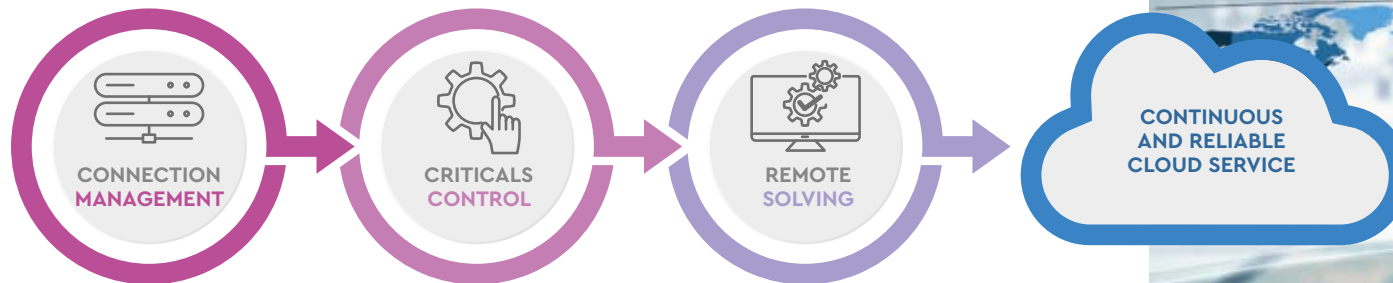
CLOUD: OPTIMIZING RESOURCE MANAGEMENT

Networking has given rise to a growing number of devices that generate data and information and change the way we work.

This scenario brings with it the need to efficiently manage the huge flow of data, which leads us to use innovative solutions such as the Cloud.

The Digital Management Platform (DMP) from Digicom stands for reliability in controlling and managing the connections of routers, modems, gateways, including those of third-party providers that transport data streams to the Cloud.

DMP provides a detailed overview of the amount of data used, the source of data traffic, the number and status of connected devices, identifies all critical problems and reports faults immediately, with the option of rectifying them remotely.

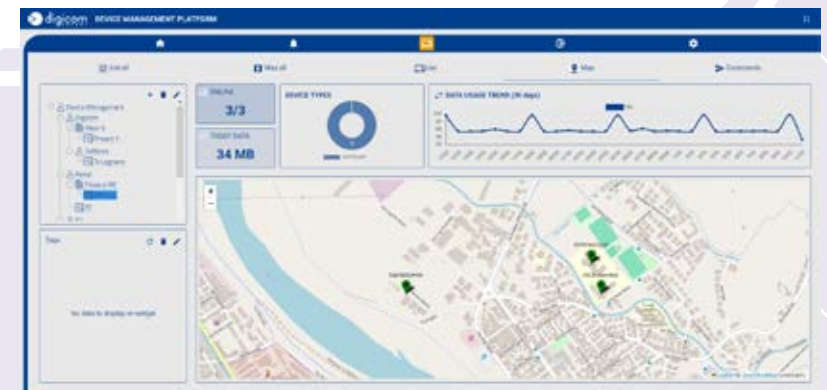
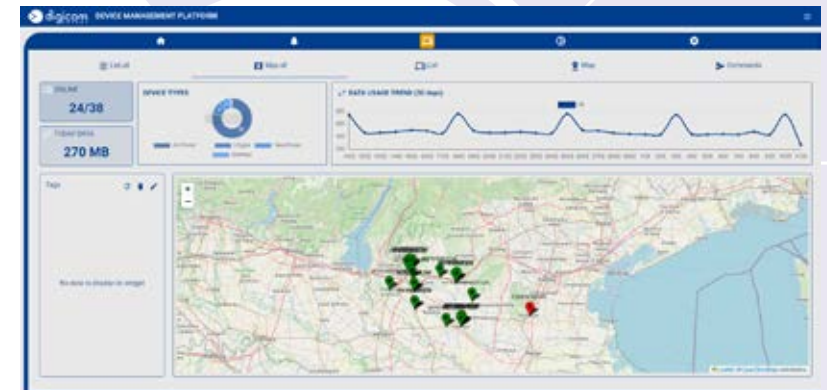


The remote device update feature helps to keep the infrastructure up to date with the latest technology and security patches, ensuring a continuous and reliable service.

All this information is accessible in real time via an intuitive interface enriched with explanatory graphics, which greatly simplifies the work of administrators and network operators.

In addition, DMP offers the possibility to create personalized reports that allow a detailed assessment of network performance and effective resource planning.

Thanks to our advanced and versatile platform, companies can maximize operational efficiency, reduce downtime and optimize the management of IT resources.





N E T W O R K

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