

Imber 5G

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Introduction

Imber Series is the new Teldat's communications platform focused on providing WLAN connectivity for **Smart City, and Industrial environments.** With features that are especially important for this sector such as robustness, extended temperature range, connectivity via serial, digital port or ethernet interfaces which includes all the specific communication protocols.

Destacar

- Dual SIM 5G
- SCADA (Modbus, IEC-101/102, IEC-104 gateway)
- Wi-Fi 802.11a/b/g/n/ac : AP or Client
- GPS (optional)
- Reduced size: 145 x 122 x 54 mm
- Temp. extended range: -40C° to +85C°
- Easy to use and easy maintenance

Interfaces

Cellular module	5G/4G/3G Fallback
Wi-Fi module	802.11a/b/g/n/ac
Ethernet Ports	1 x WAN + 3 x LAN
Serial ports	1 x RS-232 (3 PIN) + 1 x RS-485
GPIO Port	2 x DI + 2 x DO
GPS	Optionally (2 SKUs)



Competitive Advantage

Multiple interfaces	Serial RS-232 and RS-485, GPIO PINs, 4 ethernet ports WAN and LAN, celular and WiFi interfaces.
Cost effective	All round high performance router with a cost effective price.
Easy Set-Up	The device includes the celular, wifi and gps (optionally) antennas, the PSU, one ethernet cable and terminal block, all inside the box.
Multiple range power supply	The device has an input voltage range 9 to 48 VDC, but inside the packet includes the PSU and an AC/DC 100-240V adapter.

Key Features

- **1 x WAN + 3 x LAN** Auto 10/100/1000 Mbps
- **2 x SIM slots** 2 x SIM slots 1.8V / 3V. SIM failover backup in auto-switch cases as weak signal data or connection fail.
- **Serial Port 1 x RS-232 (3 PIN) + 1 x RS-485** Serial communications in RS-232 and RS-485 protocols using 4 PIN of the terminal block (included with the device).
- **Web GUI** User friendly monitoring and management thru web GUI.
- **DIN-rail mounting** Standard mounting for industrial installations.
- **5G Cellular bands** 5G NR NSA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/
5G NR SA: n1/n3/n5/n7/n8/n20/n28/n38/n40/n41/n77/n78/n79
LTE-FDD: B1/B3/B5/B7/B8/B18/B19/B20/B26/B28/B32
LTE-TDD: B34/B38/B39/B40/B41/B42/B43
WCDMA: B1/B3/B5/B6/B8/B19
- **WiFi IEEE 802.11a/b/g/n/ac Access Point (AP) Client** Access point (AP) and client modes. 5.15 – 5.825 GHz (5 GHz ISM band)
2.412 - 2.484 GHz (2.4 GHz ISM band) Wireless Security WPA WPA2
WEP 64/128 AES TKIP. RP-SMA antenna connectors.
- **Digital Input and Output 2 x DI + 2 x DO** GPIO digital input & outputs using the other 4 PIN of the terminal block.
- **IP30** Ingress protection IP30 for industrial environments built in 600g metal housing.
- **Extended temperature range** Operating Temperature -40 °C to 85 °C

CARACTERÍSTICA TÉCNICA DEL HARDWARE

WWAN Interface

Dual SIM
5G fallback
2 x SMA connectors

Housing

IP30
Operating Temperature -40 °C to 85 °C
Dimensions 145 x 122 x 54 mm

Serial interface

1 x RS-232 (3 PIN) + 1 x RS-485
4 PIN of the included Terminal block
Band Rate 300bps to 115200bps

Power Supply

Input Voltage 9 to 48 VDC
AC/DC 100-240V adapter.

Wi-Fi Interface

IEEE 802.11a/b/g/n/ac Access Point (AP) and Client modes
Wireless Security WPA WPA2 WEP 64/128 AES TKIP
RP-SMA for Wi-Fi antenna connector

Digital input & output

2 x DI + 2 x DO
4 PIN of the included Terminal block
Absolute maximum VDC: 36VDC

CARACTERÍSTICA TÉCNICA DEL SOFTWARE

Setup configurations

Web GUI
telnet & SSH CLI
AT commands

Security

Multiple protocols VPN
IPsec
OpenVPN

Industrial Protocols

Modbus RTU/TCP
IEC 101-104
Modbus to DNP3

Applications

Management
Visualization
*Please contact with us to get the full list

CARACTERÍSTICA TÉCNICAS ADICIONALES

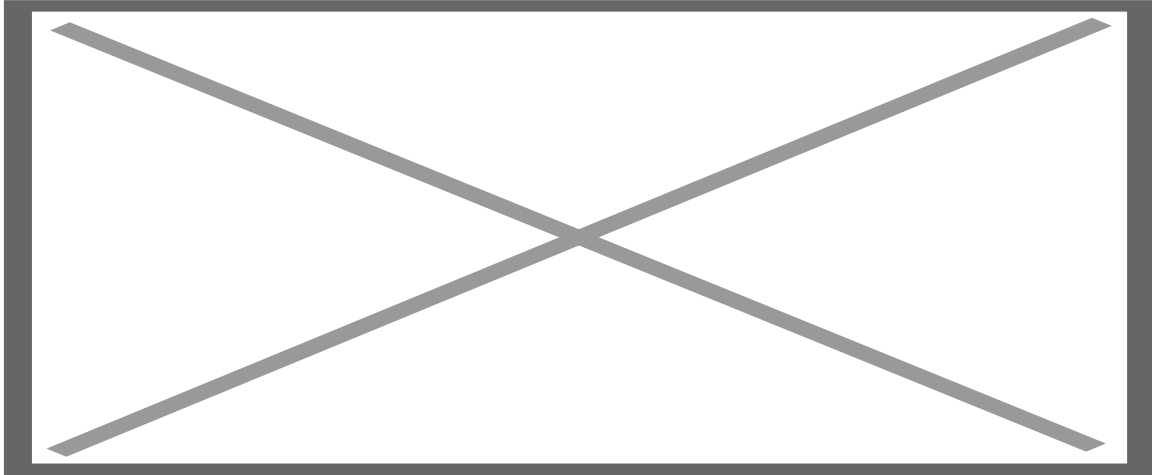
EMI Certifications

EN 55032:2012 Class B
IEC 61000-4-2 ESD: level 4
IEC 61000-4-3 RS: level 3

EMS Certifications

IEC 61000-4-4 EFT: level 3
IEC 61000-4-5 Surge: level 3
IEC 61000-4-6 CS: level 3

Scenarios



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