

Imber Smart

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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.

Interfaces

Cellular module	4G/3G/2G Fallback
Wi-Fi module	IEEE 802.11b/g/n
Ethernet Ports	1 x WAN + 3 x LAN or 4 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)

Destacar

- Dual SIM LTE
- SCADA (Modbus, IEC-101/102, IEC-104 gateway)
- WiFi IEEE 802.11b/g/n: AP or Client
- GPS (optional)
- Reduced size: 106 x 106 x 40 mm
- Temp. extended range: -40C° to +75C°
- Easy to use and easy maintenance



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	DIN-Rail included
Multiple range power supply	The device has an input voltage range 9 to 48 VDC

Key Features

- **1 x WAN + 3 x LAN or 4 x LAN** Auto 10/100 Mbps to stabilize multiple LAN and WAN communications.
- **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.
- **4G(LTE) Bands** 4G(LTE)
EMEA: B1/B3/B5/B7/B8/B20, B38/B40/B41 AU&NZ:
B1/B2/B3/B4/B5/B7/B28, B40 America: B2/B4/B12/B13 WCDMA:
B1/B2/B4/B5/B8/B19 TD-SCDMA: B34/B39 GSM/EDGE: B2/B3/B5/B8
- **WiFi IEEE 802.11b/g/n Access Point (AP) Client** Access point (AP) and client modes. 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 300g metal housing.
- **Extended temperature range** Operating Temperature -40 °C to 75 °C

CARACTERÍSTICA TÉCNICA DEL HARDWARE

WWAN Interface

Dual SIM
4G/3G/2G
2 x SMA connectors

Housing

IP30
Operating Temperature -40 °C to 75 °C
Dimensions 106mm x 106mm x 40mm

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 802.11b/g/n 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

