

Imber S

Teldat Industrial router

Introduction

Imber family 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.

Product Highlights

- Dual SIM LTE
- SCADA (Modbus, IEC-101/102, IEC-104 gateway)
- Reduced size: 82.8 x 93.3 x 28.8 mm
- Temp. extended range: -40C° to +85C°
- Easy to use and easy maintenance

Interfaces

Cellular module	4G/3G/2G Fallback
Ethernet Port	1 x LAN
Serial ports	1 x RS-232 (3 PIN) + 1 x RS-485



Competitive Advantage

Multiple interfaces	Serial RS-232 and RS-458, 1 ethernet ports LAN, and celular.
Cost effective	All round high performance router with a cost effective price.
Easy Set-Up	The device includes the celular antennas, the PSU, one ethernet cable and terminal bloack, 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

- **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
- **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 procotols using 4 PIN of the terminal block (included with the device).
- **1 x LAN Ethernet Port** Auto 10/100 Mbps.
- **Web GUI** User friendly monitoring and management thru web GUI.
- **IP30** Ingress protection IP30 for industrial enviroments built in 200g metal housing.
- **DIN-rail mounting** Standard mouting for industrial installations.
- **Extended temperature range** Operating Temperature -40 °C to 85 °C

HARDWARE TECHNICAL FEATURES

WWAN Interface

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

Housing

IP30
Operating Temperature: -40 °C to 85 °C
Dimensions: 82.8 mm x 93.3 mm x 28.8 mm

Power Supply

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

Serial interface

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

SOFTWARE TECHNICAL FEATURES

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

ADDITIONAL TECHNICAL FEATURES

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

