ALPHATECH TECHNOLOGIES s.r.o.
Jeremenkova 88, Praha 4, Czech Republic
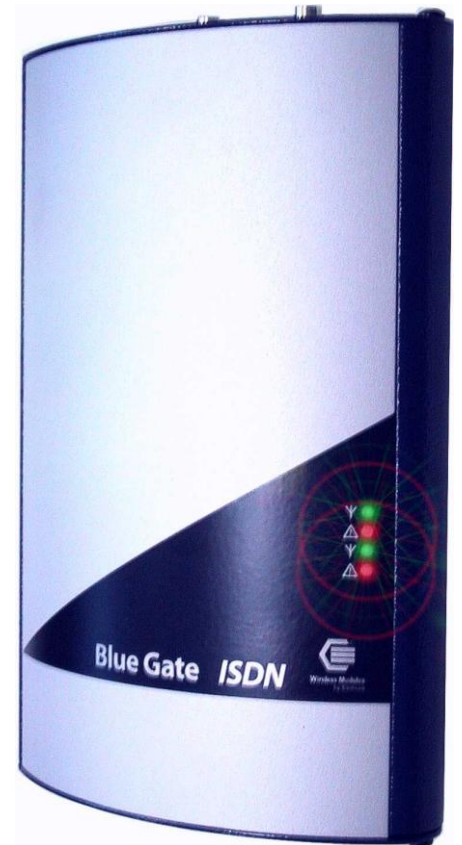www.alphatechtechnologies.cz

BlueGate UMTS Gateways

- **UMTS - HSDPA**
- **Integrated USB Port**
- **Standard analogue line interface**
- **Standard ISDN line interface**
- **Voice services**

BlueGate UMTS Gateways are designed for voice as well as data transmission between UMTS network and the PSTN or PC network (LAN, WAN). The new generation of BlueGate Gateways enables operation in 3G – UMTS network. Our UMTS Gateways reduce telephone costs dramatically by providing a direct PBX-UMTS connection. PC-UMTS data (via USB) transmission is enabled as well as SMS traffic. BlueGate Gateways are delivered in 2 variants: ISDN and Analog.

BlueGate UMTS Analog

- Analog voice services on trunk/extension line
- USB Interface for data, SMS and PC fax transmission

Main Features

- Trunk/extension line interface. Connection to analogue phones or to PBX as a trunk line. Connection to internal line (extension)* of the PBX
- Calling line identification presentation (CLIP) over the trunk line interface*
- DTMF programming even remotely
- 12/16kHz charging pulses*
- SMS server - Outlook*
- Minute management*

BlueGate UMTS ISDN

- EURO ISDN Voice connection in NT mode
- 2 communication channels (2 SIM cards)
- USB interface Channel for data, SMS and PC fax transmission

Main Features

- Connection to PBX by interface Euro ISDN with signalization DSS1 in NT mode
- Interface T0 of PBX Point To Point PTP (DDI) or Point to Multipoint PTMP (MSN)
- CLIP, Advice of charging (AOC), LCR
- Minute management*
- Configuration by PC software under Windows

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Radio Specification

- Quad mode UMTS/HSDPA/EDGE/GPRS operation
- Quad band (850, 900, 1800, 1900 MHz) for GSM/GPRS/EDGE
- 2100 MHz band for UMTS

UMTS Connectivity

- UMTS WCDMA/HSDPA
- Category 11/12
- Uplink up to 384 Kbps
- Downlink up to 1,8 Mbps

GPRS/EDGE Connectivity

- GPRS/EDGE class B
- Multislot class 10
- Coding schemes CS1-4, MCS1-MCS9
- Circuit – switched radio bearers – 64Kbps (max) uplink and downlink

Voice features

- Emergency calls
- Half Rate (HR), Full Rate (FR), Enhanced Full Rate (EFR), Adaptive Multirate (AMR)
- Echo cancellation
- MO and MT calling

Technical parameters

- Type**: BlueGate UMTS Analog**
- Operating position: various
- Interface: connector RJ-11
- Terminal resistor: 600 Ohm

Operating conditions

- Temperature: +5 ° C ÷ +40 ° C
- Humidity: 10% ÷ 80%
- Dimensions (w/h/d): 140x150x65 mm
- Weight: max. 1 kg

Part of power supply

- Supply voltage: 230 V (±10%) (adapter)
- Power input: max. 15 VA
- Protection: thermal fuse in adapter
- Safety group: ČSN EN 60950 group 2

Technical parameters

Generally

- Type: **BlueGate UMTS ISDN**
- Operating position: various

Operating Conditions

- Temperature: +5 ° C ÷ +40 ° C
- Humidity: 10% ÷ 80%
- Dimensions (w/h/d): 140x240x65 mm
- Weight: max. 1,5 kg

Part of power supply

- Supply voltage: 230 V (±10%) (adapter)
- Power input: max. 15 VA
- Protection: thermal fuse in adapter
- Safety group: ČSN EN 60950 group 2

ISDN Interface

- Interface: connector RJ-45
- Operation mode: NT mode
- Terminal resistor: 100 Ohm
- S/T interface: ITU-T I.430
- BRI Protocols: ITU Q.921, Q.931
- D – channel protocol: Euro DSS1
- ISDN Connection: Point to Point (TEI = 0) Point to Multipoint (Auto TEI)
- Supported services: CLIP, CLIR, AOC-D, AOC-E