



Unique PRI-GSM Solution for Your Company

- Substantial call cost reduction
 - Up to 8 simultaneous calls
- 4 SIM cards per GSM channel
 - Sophisticated LCR
 - 2x PRI interfaces
- VoIP interface option
 - Voice & SMS transmission
- Remote control and management
 - CallBack option

2N BlueTower

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2N BlueTower is a PRI – GSM Gateway intended for medium-size enterprises with a heavy traffic to GSM networks.

The main reason why to integrate a BlueTower unit into the telephony system is a dramatic fixed-to-mobile call cost reduction. Thanks to a sophisticated Least Cost Router (LCR) all calls are always routed in the cheapest possible way (according to free minutes on SIM cards, prefixes of GSM providers, etc.)

The modularity of BlueTower allows the user to create an effective solution for connecting of up to 8 GSM channels with one or two ISDN PRI ports and one VoIP interface.

There are two main advantages of 2 PRIs over just 1 PRI:

- no need of any additional PRI card in the PBX
- no need to change the configuration of the PBX, everything is programmed in the gateway.

In case you use VoIP in your company infrastructure, you need not install any external VoIP Gateway because BlueStar can be equipped with a VoIP interface.

BlueTower has been enhanced with a new Dynamic Clip Routing feature. This means that incoming calls are routed to the right extension according to a flexibly changing called number database.

A network application for SMS sending called the SMS server is one of additional user values of this unit. The delivery status of any message is obtained automatically.

The additional SMS and Voice CallBack software with authorization and restriction capability is used by the company staff in the field very often to save even more on incoming calls to BlueTower.

BlueTower can be remotely managed and monitored via IP, using analog or ISDN modems or a special unit called the Remote Control Unit (RCU) can be connected to provide a very secure and user-friendly management.

Wireless
Modules
by Siemens
embedded

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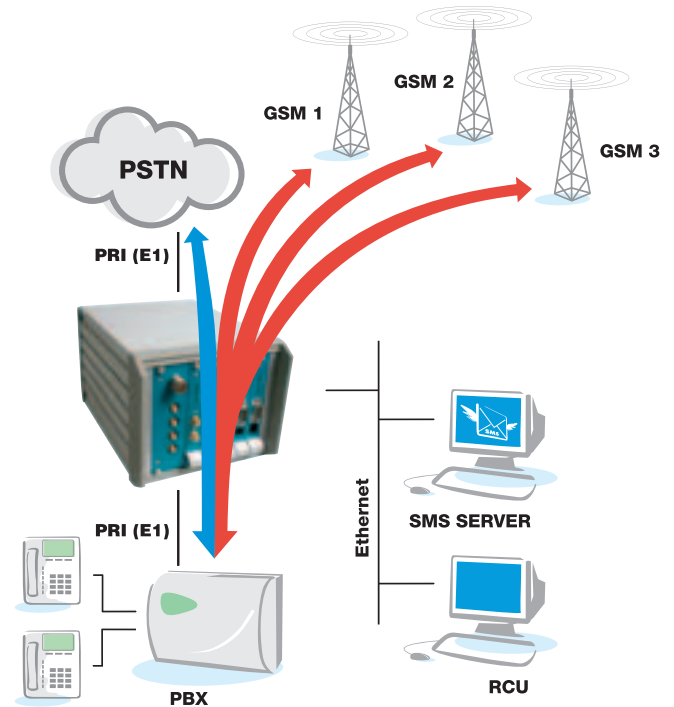
BLUETOWER

2N[®]
TELEKOMUNIKACE

2N BlueTower

Features:

- Up to 8 GSM channels – scalable capacity
- 4 SIM cards per channel
- 2 PRI interfaces – DialThru functionality
- VoIP interface
- Efficient Least Cost Routing (LCR) – according to free minutes, prefixes, time etc.
- SMS & Voice CallBack
- SMS server – SMS sending & receiving support
- Support of external number portability database
- GSM network monitoring
- Call statistics and 100% control of all calls (CDR)
- Optional integrated antenna splitter
- Comfortable remote control and maintenance
- Worldwide use (all GSM frequencies are supported)*



Item description	Part No.
Basic unit consisting of rack mountable chassis, power supply, CPU, 2xPRI and AUX card, scalable from 2 to 8 GSM channels (1-4x507302E)	507310E
GSM card (2 GSM channels, 4 SIM cards per channel) with 2 Siemens TC35i GSM modules, 900/1800MHz	507302E
Integrated antenna combiner 4/1 (4 GSM channels to 1 directional YAGI antenna)	5073241E
External antenna combiner 8/1 (8 GSM channels to 1 directional YAGI antenna)	5073281E
BlueTower 2N XAPI SMS licence	5073994E
BlueTower 2N Voice CallBack	5073996E

Technical parameters

PRI ISDN	
Number of ports	1xNT/TE or 2x NT/TE
PRI ISDN details	S interface signalling EDSS1 (Q.931) QSIG (1xPRI) Connection via RJ45 connectors
VoIP**	
Number of ports	1x
Protocol	SIP
Connector	RJ45
GSM	
GSM channels	From 2 to 8 (step2, max 4 in case of integrated antenna splitter)
Network types	850/900/1800/1900 MHz*
GSM engine	Siemens TC35i, MC45i and MC46i
SIM card	Small plug-in, 3 V
Antenna connector	SMA (female), Impedance 50Ω
Antenna splitter (optional)	
Input connector	SMA (female), Impedance 50Ω
Output connector	N type (female), Impedance 50Ω
Isolation between two channels	>20dB
Antenna	
With splitter	High gain GSM YAGI antenna
Without splitter	Small GSM discreet antennas

Mains

Power supply	External adapter 90-260V/50-60Hz
Power output	5V 4A

Local control

	2x RS232 serial connection
	D-Sub 9 pin connector
	Transmit speed 57600b/s

Remote control

	External analog, ISDN, GSM modem
	TCP/IP (Telnet protocol)
	PRI ISDN DATA
	HTTPS, SSH, SMTP, SMS, SNMP ***

Other

Dimensions (WxHxD)	186x133x256 mm (29HPx3Ux256mm)
Weight	3 kg
Operating temperature	20-50°C
Relative humidity	Max 95% at 40°C
Recommended	Air condition Line interactive UPS

* depends on the GSM engine type

** optional

*** SNMP with the 2N RCU