

Tactical BSR Pico System Specifications

RF Characteristics

Band	Tx Freq.	Rx Freq	Channel Spacing	Max Power Output	Tx Dynamic Range	Static Receive Sensitivity
GSM-850	869 - 894 MHz	824 - 849 MHz	200 kHz	+25 dBm	>20 dBm	-99 dBm
EGSM	925-960 MHz	880-915 MHz	200 kHz	+25 dBm	>20 dBm	-99 dBm
DCS	1805-1880 MHz	1710-1785 MHz	200 kHz	+25 dBm	>20 dBm	-100 dBm
PCS	1930-1990 MHz	1850-1910 MHz	200 kHz	+25 dBm	>20 dBm	-100 dBm

Channel Support

Tri-band (900/1800/1900, or 850/1800/1900)
Single Carrier
1 BCCH Timeslot
1 SDCCH Timeslot (8 SDCCH channels)
6 active user timeslots configurable as TCH or PDCH

Internal GSM Clock

Initial Accuracy: ± 20 ppb

System Antenna

External, N type connector

Teleservices

Telephony
Intra-BSR SMS

Circuit Switched Data

9600 bps, asynchronous, transparent, V.32

GPRS Support

Coding Scheme 1,2
Multi-slot Class 1-10

Mobility

Network wide HLR/HSS
Voice call Handover between BSRs
CSD call Handover between BSRs

Encryption Support

A5/1
Type 1 Secure Calls via CSD

Speech Format

GSM FR

Signaling & Traffic

Signaling: SIP
Voice: RTP/UDP/IP
Secure Voice (CSD): SPRT/UDP/IP (V.150.1)
GPRS: IP

Network Interface

Auto-sensing 10/100 Ethernet
Interoperates with SIP based endpoints:

- o PSTN gateways
- o V.150.1 Secure Call gateways
- o Call Managers
- o VoIP phones

System Management

Windows Based NMS provided with auto-discovery
Software download and IP address management tools

Power

4.9 – 5.4 VDC input
External AC Adapter
Nominal Power Consumption: 20W

Physical

Compact, Rugged, EMC Compliant Chassis
Dimensions: 2.3" x 6.8" x 11.2"
Weight: 4.9 lbs

Environmental

Operation: 0°C – 50°C
Storage: -20°C – 60°C
Altitude: 10,000 feet
Vibration: Vibration and Shock Resistant Design



Tactical BSR Macro System Specifications

RF Characteristics

Band	Tx Freq.	Rx Freq	Channel Spacing	Max Power Output	Tx Dynamic Range	Static Receive Sensitivity
GSM-850	869 - 894 MHz	824 - 849 MHz	200 kHz	+43 dBm	> 20 dBm	-111 dBm
EGSM	925-960 MHz	880-915 MHz	200 kHz	+43 dBm	> 20 dBm	-111 dBm
DCS	1805-1880 MHz	1710-1785 MHz	200 kHz	+43 dBm	> 20 dBm	-111 dBm
PCS	1930-1990 MHz	1850-1910 MHz	200 kHz	+43 dBm	> 20 dBm	-111 dBm

Channel Support

Single band, Single Carrier

1 BCCH Timeslot

1 SDCCH Timeslot (8 SDCCH channels)

6 active user timeslots configurable as TCH or PDCH

Internal GSM Clock

Accuracy: ± 20 ppb

Teleservices

Telephony

Intra-BSR SMS

Circuit Switched Data

9600 bps, asynchronous, transparent, V.32

GPRS Support

Coding Scheme 1,2

Multi-slot Class 1-10

Mobility

Network wide HLR/HSS

Voice call Handover between BSRs

CSD call Handover between BSRs

Encryption Support

A5/1

Type 1 Secure Calls via CSD

Speech Format

GSM FR

Signaling & Traffic

Signaling: SIP

Voice: RTP/UDP/IP

Secure Voice (CSD): SPRT/UDP/IP (V.150.1)

GPRS: IP

Network Interface

Auto-sensing 10/100 Switched Ethernet

Interoperates with SIP based endpoints:

- PSTN gateways
- V.150.1 Secure Call gateways
- Call Managers
- VoIP phones

System Management

Windows Based NMS provided with auto-discovery

Software download and IP address management tools

Power

Single locking connector accepting either

- DC: 21-32 VDC, or
- AC: 90-132/180-264 VAC, 47-440 Hz

Nominal Power Consumption: 160W

Physical

3U Standard 19" Rack Mount Chassis (EIA 310)

Supplemental Rear Mount Compatible

EMC Compliant

Dimensions: 5.25" x 16" x 19"

Weight: 30 lbs

Environmental

Operation: 0°C – 50°C

Storage: -20°C – 60°C

Altitude: 10,000 feet

Vibration: Vibration and Shock Resistant Design

System Antenna

External, N type connector

Options

Stand Alone Enclosure available



These materials are believed to be accurate at the time of publication, but are subject to change and general product/feature availability.