Mobile Cellular Communications System

“Providing Wireless Service Anywhere In The World”

Proactive Energy Service’s Mobile Cellular Base Station System

Proactive Energy Service’s mobile cellular system is the finest integrated system on the market, specifically designed for quick and reliable delivery of wireless communications to remote and rugged locations outside the footprint of traditional terrestrial services.

The trailered system provides every infrastructure component required for stand-alone, off-grid delivery of multiple communication systems including Ku, Ka or C-Band VSAT, GSM / LTE cellular, 802.11g Wi-Fi, 2/5Ghz Point-to-Point and/or Point-to-Multipoint, and VHF or UHF radio in one rugged, air conditioned compact unit.

A commercial-grade diesel genset with automatic transfer Switch will reliably back-up grid power or provide primary power for the system for up to 2 weeks without refueling. A pneumatically operated 50’ telescopic mast provides a stable platform for mounting multiple antennas, cameras, radios and scene lights.
Mobile Cellular Communications System Features

**Trailer & Equipment Compartments:**
- Tandem axle, 7500# capacity
- 16” aluminum wheels
- All steel frame construction, spray-lined
- Electric trailer brakes
- IP66 Weatherproof compartments
- Lockable latches on every door
- Vented genset compartment
- LED lights with door switches in every Compartment
- Door catches secure while open
- All Stainless hardware
- Painted heavy aluminum compartment framing, ceiling and wall surfaces
- Air-conditioned equipment compartments

**Diesel Generator Power System:**
- Quiet 10Kw water-cooled diesel genset
- 93 Gallon fuel cell w/ electric pump
- Digital generator voltage control
- Automatic Transfer Switch
- Integrated battery chargers
- Auto-start feature
- AC & DC Control Panels
- LED lighting on control panels
- Multiple GFI power outlets
- 12VDC power supply in equipment rack and on mast junction enclosure
- Master DC power switch
- Mast-mounted high lumen LED scene lighting system

**Pneumatic Telescopic Mast:**
- 50’ elevation at full extension
- Dual air compressors
- Compressed air tank
- Electric rocker switch operation
- Configurable mast head
- Heavy duty Ny-Coil cabling system with LMR-400 (3), DC power, and ethernet cables (4)
- Heavy duty aluminum mast sections
- Pressure relief valve
- Stowed mast elevation at 10’

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Very Small Aperture Terminal (VSAT) System:
• Auto-Acquire Single Button Operation
• 1.2M Ku / Ka Band or 1.8M C-Band
• iDirect Evolution Satellite Router
• Rugged, proven and reliable drive motors and components
• Minimal preventive maintenance
• Configurable for anywhere in the world

2G / 3G GSM Cellular Base Station:
• Private GSM network or GSM system extension
• Up to 100 concurrent GSM sessions
• Rack-Mounted, compact base radios
• Sectorized 120° Panel Antennas provide true 360 degree coverage
• Up to 50’ Elevation
• Configurable for global or local connection
• Remote monitoring, configuration & support
• Weatherproof components, IFL cabling and connectors

802.11g Wi-Fi and IP Video Systems:
• 2Ghz/5Ghz Wi-Fi via high power outdoor MIMO access point
• Up to 200 Meter access radius with 50’ mast
• Multiple SSIDs and VLANs
• 6 Megapixel hemispherical video sensors provide 360 degree fields of view
• Digital pan/tilt/zoom operation – no moving parts to fail
• Web server / web interface / software view
• On camera storage – up to 256Gb
• Auto notification via e-mail, SMS, voice
• Remote monitoring, configuration & support
• Ultra low lumen night video operation