



STARBLINK

TECHNOLOGIES PRIVATE LIMITED

TECHNOLOGY THAT PROTECTS, INNOVATES, AND EMPOWERS

DATASHEET

DEFENCE TECHNOLOGY

MADE FOR MISSION CRITICAL OPERATIONS



RUGGED



SECURE



RELIABLE



CONNECTED

STARBLINK – SENA NIGRAANI™

CRITICAL EQUIPMENT REMOTE MONITORING & CONTROL SYSTEM
FOR GENERATORS & MISSION CRITICAL ARMY EQUIPMENT



REAL-TIME MONITORING



INSTANT ALERTS



MAINTENANCE REMINDERS



FUEL MANAGEMENT



REMOTE CONTROL



GPS TRACKING & GEO-FENCING

OVERVIEW

STARBLINK – SENA NIGRAANI™ is an advanced IoT based remote monitoring and control system designed for 24x7 health monitoring, preventive maintenance, and remote operation of critical Army equipment such as Generators, Power Units, Communication Shelters, Radar Systems, and Tactical Equipment.

It ensures maximum uptime, early fault detection, downtime reduction, and mission readiness.

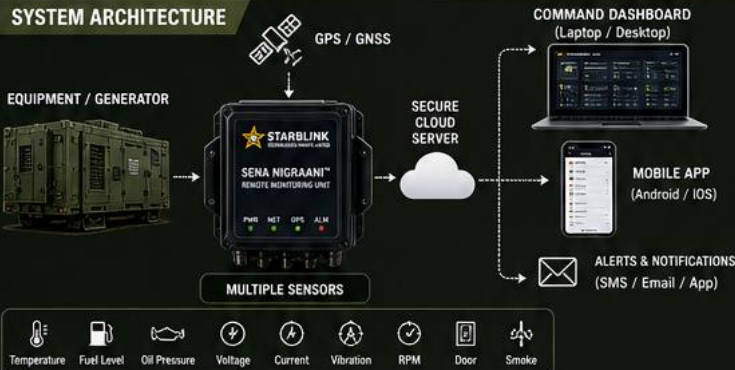


APPLICATIONS

- ✓ Diesel Generators
- ✓ Mobile Power Units
- ✓ Radar & Communication Systems
- ✓ Air Defence Support Systems
- ✓ Tactical Shelters
- ✓ Vehicle Mounted Equipment
- ✓ Pumps, Compressors & More



SYSTEM ARCHITECTURE



KEY FEATURES

- ✓ Real-time Health Monitoring (Temperature, Pressure, Voltage, RPM, etc.)
- ✓ Overheating & Critical Fault Alerts
- ✓ Fuel Level Monitoring & Low Fuel Alerts
- ✓ Running Hours & Utilization Analytics
- ✓ Preventive Maintenance Reminders
- ✓ Remote Start / Stop / Control
- ✓ Instant SMS / App / Email Alerts
- ✓ GPS Tracking & Geo-fencing
- ✓ Tamper / Movement / Theft Alerts
- ✓ Multi-Platform Access (Laptop, Mobile, Tablet)
- ✓ Secure Encrypted Communication (AES-256)
- ✓ Rugged Design for Harsh Environments
- ✓ Data Logging & Historical Reports
- ✓ OTA Firmware Update

MONITORING PARAMETERS

- Engine Temperature
- Oil Pressure
- Coolant Level
- Battery Voltage
- Fuel Level
- RPM
- Load / Power Output
- Running Hours
- Idle Hours
- Vibration
- Exhaust Temperature
- Generator Status (Run/Stop)
- Fault Codes
- Door Status / Tamper

DASHBOARD PREVIEW



REMOTE CONTROL FUNCTIONS

- Start Generator
- Stop Generator
- Restart After Trip
- Change Operating Mode
- Adjust Thresholds
- Enable Fuel Saving Mode
- Reset Alarm
- Firmware Update (OTA)
- View Logs & Reports

RUGGED & SECURE

- IP67 Water & Dust Proof
- MIL-STD-810H Certified
- EMI / EMC Hardened
- Anti-Tamper Protection
- Data Encryption AES-256
- Operating Temp. -30°C to +70°C

TECHNICAL SPECIFICATIONS

| | |
|-----------------------|--|
| Operating Voltage | 9 – 36V DC |
| Power Consumption | < 5W (Typical) |
| Operating Temperature | -30°C to +70°C |
| Storage Temperature | -40°C to +85°C |
| Enclosure | IP67, MIL-STD-810H |
| Dimensions | 160 x 120 x 80 mm |
| Weight | 850 gm (Approx.) |
| Backup Battery | 24 Hours (Internal) |
| Communication | 4G / LTE / GSM / RF Mesh / SATCOM / Ethernet / Wi-Fi |
| GPS Accuracy | < 2.5 m CEP |
| Encryption | AES-256 (End-to-End) |

ALERT EXAMPLES (SMS)

- ALERT – DG SET 03**
Location: Forward Base Alpha
Engine Temp: 108°C (HIGH)
Fuel: 12% (LOW)
Service Due: 6 hrs remaining
Action Required Immediately 10:45 AM
- ALERT – DG SET 07**
Location: Radar Site Bravo
Low Oil Pressure Detected
Engine Stopped Automatically
Check Equipment Immediately 11:20 AM
- ALERT – DG SET 02**
Location: Communication Unit
Fuel Level Critical: 8%
Refuel Required 12:05 PM

COMMUNICATION OPTIONS

- 4G / LTE
- GSM / SMS
- RF MESH
- SATCOM
- ETHERNET



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