

PECB G123

Portable Emergency Communication Box – A complete compact Mobile Communication Pico Network in hand-carry pack for emergency response and rescue operations by public safety agencies



Globally public safety agencies are relying on need for dedicated communication equipment which can be transported and deployed rapidly and have no dependencies on availability of public networks. Response from such agencies, especially in first 72 hours, is considered critical in minimising the disaster impact.

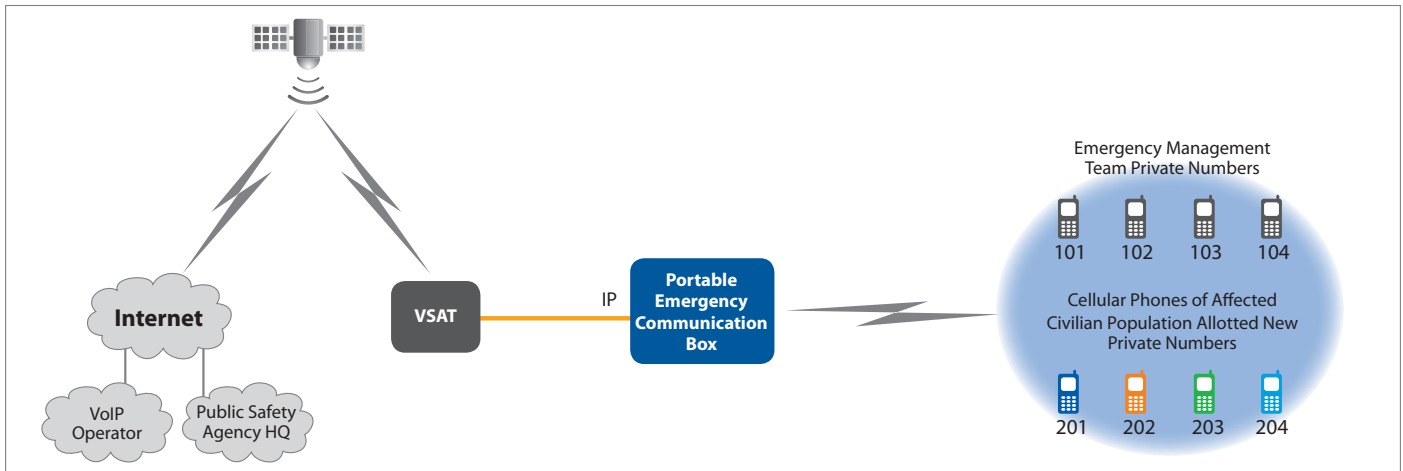
VNL's PECB G123 is WorldGSM™ Pico-NIB based integrated solution for emergency response providing an efficient, hand carry, way of providing private mobile communication services in pico cell coverage range, both for own communication and communication of affected civilian population on standard GSM handsets.

BENEFITS

- Overcome challenges in providing quick mobile communication services for supporting emergency response operations in areas beyond the reach of public network services
- Overcome challenges in providing quick temporary mobile communication services in disaster affected areas until public networks are restored
- Flexibility in Operational scenarios - support both static and on-the-move operation such as in backpack, vehicle mounted or helicopter/drone mounted
- Simple configuration for use by anyone – Just carry and power on for instant mobile services (Auto-configuration like frequency selection)
- Guaranteed services for priority users

HIGHLIGHTS

- 14 concurrent voice calls – congestion free services and reserved capacity for priority users, standalone operation
- 1000 registered users – allows limited mobile services to large number of cellular phones of affected civilian population
- 400Kbps uplink and 400 Kbps downlink packet data throughput - Upload images and short video clips, group chat applications
- A day's operation on single inbuilt battery charge, with an extra battery pack for charging for longer hours of operation
- Very low backhaul capacity required for external world connectivity – Less than 128 Kbps backhaul required for 14 concurrent voice calls routed outside, local calls & sms switched locally



Portable Emergency Communication Box Deployment

SOLUTION OVERVIEW

PECB-G123 is an integrated, small capacity, 3GPP compliant, complete mobile solution with battery pack available in all standard GSM frequency bands, providing mobile services – voice, messaging and data to standard GSM handsets.

With IP backhaul availability e.g. via a satellite ‘bgan’ terminal, internet and VoIP operator’s services can be extended to the private mobile users.

Multiple such boxes can network on standard voip interface e.g. each team having one such box in single location or same team having multiple such boxes in different locations.

FEATURES

This box enables public safety agencies setup up mobile services operational in minutes in the affected area or hard-to-access areas and provides for

- Critical communications for emergency management team
- Communication to cellular phones of affected civilian population
- Geo-location services , based on GPS and other methods of positioning information from supported devices
- Search and rescue operations such as revealing location of trapped, buried or missing victims by tracking their mobile devices
- Emergency services like mass SMS with emergency instructions to all mobiles in coverage area

System Operating Time Data with 10 Ah 48VDC Battery	In-Built (In Hrs.)	Extra - 50 Ah (In Hrs.)
Stand Alone System	7	38
With IP Radio (Backhaul)	6	32
With VSAT (Backhaul)	5	27
With VSAT+ IP Radio (Backhaul for Other Sites)	4	24



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Extra Battery Pack

For further information visit our website www.vnl.in

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