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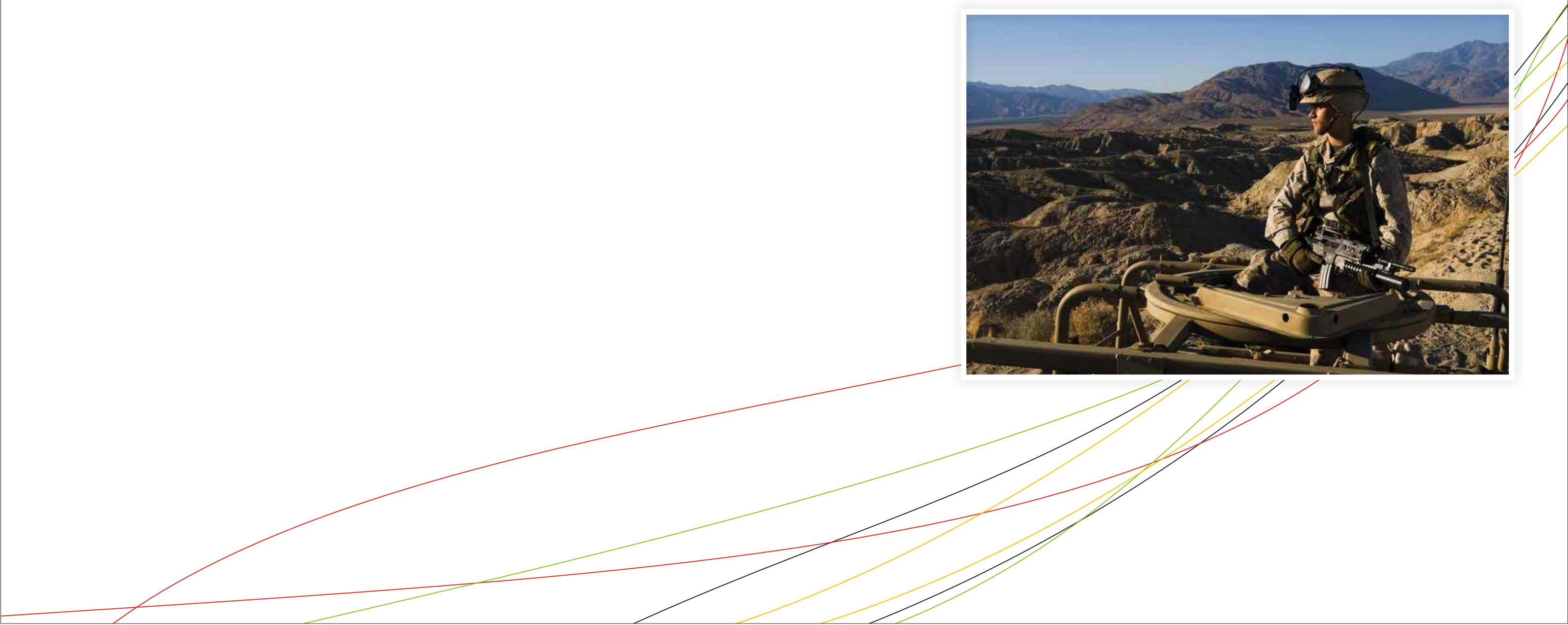
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TACTICAL COMMUNICATION SOLUTIONS 

RIDEX SWITCH



RIDEX SWITCH (ULSB MK III)

RUGGEDISED SOLUTIONS FOR DEFENCE APPLICATIONS

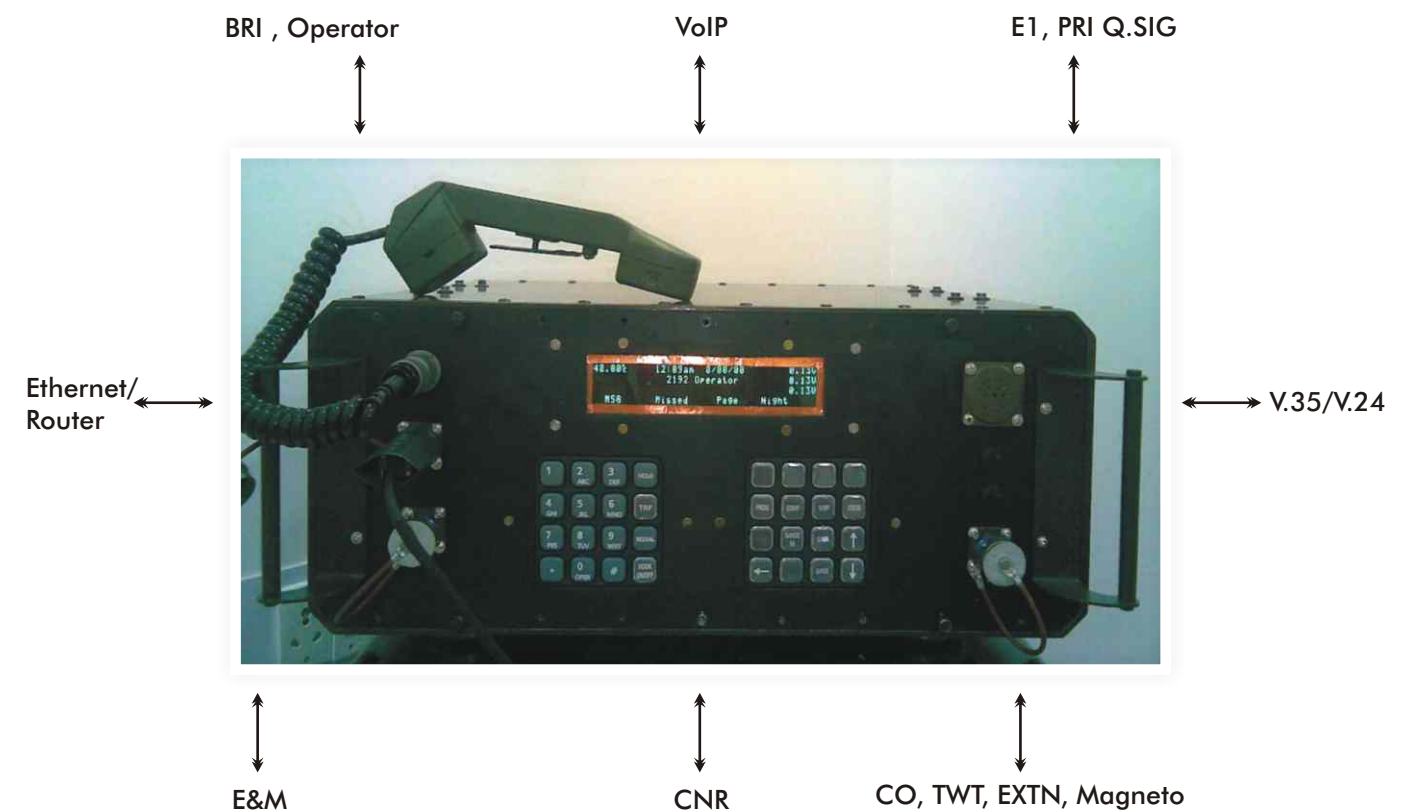


One of the key factors in winning a war is communications. To enable quick and efficient communication between the forward units of the Indian Army and their headquarters, the units need a compact, state of the art telephone exchange which can function under the tough conditions without failure. This field telephone exchange supports voice, data and video over backbone networks such as ATM & IP and offers transparent networking with the existing telephone exchanges on all standard signaling protocols including Q-SIG.

Coral Telecom Ltd. with its years of R&D experience offers USLB MK-III to meet the tough communication requirements of the Indian Defence Forces. Unit Level Switch Board MK III (ULSB MK-III) Equipment is a ruggedized Automatic Telephone Exchange designed to meet the communication requirement of any Army Unit formation. The Equipment supports up to 256 Ports consisting of POTS, ISDN, CO, LD, RD and Trunks in its basic unit. This equipment can be used as a switch to provide switching capabilities for local as well as trunk ports which can be in both analog and digital format. With this equipment, it is possible to interface with field tactical communication network through the ATM Access-switch.

ULSB MK-III Equipment is state of art equipment based on Digital Stored Program Control (SPC) technology. It employs non-blocking circuit switching concept for legacy network and switching over IP networks. For Man-machine interface (MMI), a Laptop PC with Windows Operating System (OS) is used.

RIDEX- Ruggedised Integrated Digital eXchange



SYSTEM FEATURES

- Auto Call Back (ACB)
- Call Forward
 1. Busy
 2. No Reply
 3. Unconditional
- Call Diversion / Deflection (forward and follow me)
- Call Pick-up
- Call Transfer
- Call Waiting
- Call Hold and Answer
- Abbreviated Dialing
- Calling Line Identity Presentation (CLIP)
- Calling Line Identity Restriction (CLIR)
- Connected Line Identity Presentation (COLP)
- Connected Line Identity Restriction (COLR)
- Do-Not-Disturb
- Distinguishable Tones/Cadences
- Timeout on Tone and Ringing
- Timeout during dialing
- Open and Closed User Group
- Trunk Barring
- Data call for selected ISDN subscribers
- Malicious Call Tracing / Administration
- Non-Dialed-Connection (HOTLINE)

OPERATOR FEATURES

- Built-in operator with 4 X 40 Vacuum Fluorescent Display
- Alarm indication
- Intrusion
 1. Intrusion on busy Extension and External Line
 2. Forced Release
- Queue indication
- Recall to PBX operator
- Busy Verification
- Call Splitting
- Trunk to Trunk Access /Transfer

KEY FEATURES

- Modular Design with 16 universal slots, 8/12 ports per card
- Built around a 32-bit processor
- Fully non-blocking
- In-built FCBC for 12V/24V/48V operation
- Ruggedized as per JSS55555 standards
- System Alarm Indication

- STD Barring
- Direct inward Dialing & Direct outward Dialing
- Group Hunting
- Priority / Pre-emption
- automatically adjusts voltage feeds for short loops and long loops
- Ruggedized MDF with 5 stage protection

SYSTEM CONFIGURATION

Subscriber Cards

- Analog extension card...8 ports/card
- BRI U card... 8 ports/card
- Magneto ... 8 ports/card

Redundant Control Cards

- CPU
- MIC
- PSU

Interface Cards

- E&M (2/4 wire)...8 port/card
- CO 8 ports/card
- LD/TWT.... 8 ports/card
- E1/PRI....1 port/card
- nx64/V.35/V.24 data interface...2 ports/card
- 64k CO-dir data interface.....8 ports/card
- 10/100 mbps data interface.....1 port/card
- VoIP trunk interface32 port /card
- CNR (combat net radio)

Accessories

- Ruggedized LTB/MDF
- Man-pack Harness
- Rugged Transit Case
- Laptop for MMI
- Earthing spikes
- Rugged Laptop case

Operator Handset/Headset

- Small form factor, card size only 3U
- On board conferencing capability of 64 parties
- In-built protection available on all cards
- Analog line cards with Thermal Management

TECHNICAL SPECIFICATIONS

Capacity	Up to 184 Ports, Completely non-blocking
Power Supply	Built-in FCBC, Battery operation 10 V to 65 V
Voltage	DC (AC operation 140 V to 265 V)
Battery backup time	Minimal power consumption, up to 32 hours on 48V operation on 80 AH battery bank
Dimension	480 mm (L) x 410 mm (W) x 230 mm (H)
Weight	Less than 20 kg

ENVIRONMENT SPECIFICATIONS

Equipment shall meet climatic and durability tests as per JSS 55555 specifications.

Temperature Range

Operating -10 °C ± 2 °C to + 55 °C ± 2 °C

Storage -20 °C ± 2 °C to +70 °C ± 2 °C

EMI / EMC specifications

Equipment will meet EMI/EMC requirements as per MIL-STD-461D / E