

1 TECHNICAL SPECIFICATIONS

1.1 GNSS SPECIFICATIONS

| Ser No | Parameter | Description |
|--------|-----------------------------|--|
| 1. | GNSS | NavIC (IRNSS) L5 GPS L1 GLONASS L1 |
| 2. | SBAS | GAGAN |
| 3. | Signal Bands | L1, L5 |
| 4. | No of Channels | 135 channels |
| 5. | Update Rate | 1 Hz |
| 6. | Sensitivity | |
| | Tracking | -153 dBm |
| | Cold Start | -135 dBm |
| 7. | Acquisition Time | |
| | Hot Start (open sky) | < 5 s |
| | Cold Start (open sky) | < 35 s |
| 8. | Protocol Support | NMEA 0183 ver 4.11 |
| 9. | Positioning Accuracy | Autonomous 1 m CEP |

1.2 SOFTWARE SPECIFICATIONS

| Ser No | Parameter | Description |
|--------|--------------------------|--|
| 1. | Built in Software | Pre-Loaded OEM Navigation Software |
| 2. | Map | Pre-Loaded with Indian Base Map |
| 3. | Additional Maps | Ability to load DSM/ ESM/ Satellite maps |
| 4. | Compass | Built in Electronic Compass |

| | | |
|-----------|-----------------------------------|---|
| 5. | Sun & Moon Information | Built in Sun and Moon Information to assist in operational planning |
| 6. | Reference Points | 20,000 Points can be stored |
| 7. | Tracking | 250 Tracks can be stored |
| 8. | Grid Reference | Ability to show DSM, ESM GR values |

1.3 HARDWARE SPECIFICATIONS

| Ser No | Parameter | Description |
|---------------|--------------------------------|---|
| 1. | Display size (Diagonal) | 6.6 inches Display |
| 2. | Display Resolution | 720 x 1600 pixel |
| 3. | Display Type | High Definition IPS LCD |
| 4. | Dimensions | |
| 5. | RAM | 4 GB |
| 6. | Memory Storage | 128 GB |
| 7. | Data Interface | High Speed Micro USB Type C |
| 8. | Battery Type | 5000mAh, Li-ion battery |
| 9. | Battery Life | Normal: 30 hours Intensive: 20 hours |
| 10. | Built-in Antenna | Built-in High gain antenna |
| 11. | Flash light | Flash light with Beacon Support |
| 12. | Water resistance Rating | IP67 |
| 12. | Temperature Range | |
| | Operating | -20°C to 50°C |
| | Storage | -20°C to 60°C |
| 13. | Weight | 350 gms |
| 14. | Ruggedness | MIL Std JSS 55555 |

1.4 GENERAL FEATURES

| Ser No | Description |
|--------|---|
| 1. | Can work indoors (First fix has to be taken under Open Sky) |
| 2. | Can work under foliage |
| 3. | Point to Point Navigation |
| 4. | Route Creation using Waypoints |
| 5. | Tracking the routes |
| 6. | Adding Waypoints using Lat-Long, ESM/ DSM GR |
| 7. | Adding Waypoints by picking from the map |
| 8. | Instant creation of waypoints and saving Current location |
| 9. | Shows Satellite Strength |
| 10. | Shows DOP, HDOP, VDOP, PDOP values |