

**SIGN4L**

# BORDERSHIELD



Surveillance system that provides integrated persistent awareness and security to give the tactical edge, for border protection.

# SPECIFICATIONS

## KEY FEATURES

- Target detection and Identification
- Target location
- Cellular Identification
- Support for GSM, UMTS, LTE and 5G NSA
- High end scanner supporting 2G/3G/4G/5G
- Continuous detection of cellular identities with smart switching of antenna sectors

## SPECIFICATIONS

| Hardware                   |                                                                                                                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cellular Operating Band    | <b>GSM:</b> 1900(B2), 1800(B3), 850(B5), 900(B8)<br><b>UMTS:</b> 2100(B1), 1800(B3), 850(B5), 900(B8),1900(B2), 1700(B4)<br><b>LTE:</b> 2100(B1),1900(B2),1800(B3),1700(B4), 850(B5), 2600(B7), 900(B8), 800(B20), 850+(B26), 700(28), 2600 (B38), 2300 (B40), TD 2600+ (B41), 1700/2100(B66)<br><b>5G NSA</b> |
| Number of BTS              | 16 BTS's. Up to 2 subsystems per installation (i.e., 2 x 8 BTS's per sub-system)                                                                                                                                                                                                                               |
| BTS Supported Technology   | GSM, UMTS, LTE, 5G NSA                                                                                                                                                                                                                                                                                         |
| BTS Dynamic Range          | >75 dB                                                                                                                                                                                                                                                                                                         |
| Power Amplifiers           | 6x50W CW per subsystem                                                                                                                                                                                                                                                                                         |
| Antennas                   | 3 for 180° coverage<br>6 for 360° coverage<br>Each antenna is 60/70 degrees depending on the mode of operations                                                                                                                                                                                                |
| Camera                     | As per OEM specification                                                                                                                                                                                                                                                                                       |
| Radar                      | As per OEM specification                                                                                                                                                                                                                                                                                       |
| Functionality              | Software defined radio – smooth transition between technologies                                                                                                                                                                                                                                                |
| Scanning                   | High end scanner supporting 2G/3G/4G/5G                                                                                                                                                                                                                                                                        |
| Display                    | Laptop GUI, display also shows GPS location and map or mobile phone (identification and location only)                                                                                                                                                                                                         |
| Safety                     | Alarms for high power, VSWR and temperature                                                                                                                                                                                                                                                                    |
| Environmental <sup>1</sup> | Designed for MIL-STD 810G                                                                                                                                                                                                                                                                                      |
| Software                   |                                                                                                                                                                                                                                                                                                                |
| Remote Control Unit        | C-UAS C2 application                                                                                                                                                                                                                                                                                           |
| System Scanning            | GSM/UMTS/LTE/5GNSA                                                                                                                                                                                                                                                                                             |
| Mode of Operation          | Identification, location, and downgrade to lower technology.<br>Switching the sector of operations                                                                                                                                                                                                             |
| Display System Location    | Via GPS reading                                                                                                                                                                                                                                                                                                |

<sup>1</sup> The environmental conditions stated above apply only to the BorderShield systems' main components.