

SNC[®]

Digital High Probability of Intercept Receiver (Digital HPOI)



The SNC Digital High Probability of Intercept Receiver (Digital HPOI) is a continuously staring intercept receiver system. The system provides spectral situational awareness display, emitter lists, and pulse capture with nearly 100% probability of intercept. The Digital HPOI consists of three RF input bands, tuners/digital receivers, and user displays. Customers provide compute resources for user displays and recording storage.

Digital High Probability of Intercept Receiver (Digital HPOI)



PERFORMANCE SPECS

HRP Size	19" rack mount per IEC 60297-2 9U tall x 20" deep
HRP Weight	114 lbs., maximum
HRP Input Power	120 VAC, 60-400 Hz, Single Phase 1400 VA max, 30A in-rush for 1 second
HRP Cooling	Fan Forced Air entry in front, exhaust rear
DCU Size	19" rack mount per IEC 60297-2 3U tall x 20" deep
DCU Weight	25 lbs., maximum
DCU Input Power	120 VAC, 60-400 Hz, Single Phase 225 VA max, 6A in-rush for 1 second
DCU Cooling	Fan Forced Air entry in front, exhaust rear
Environments	Compliant to L-3 Communications G13215.15.26_rev_A

FEATURES

16 GHz IBW continuously staring intercept receiver; easily integrated within larger ESM subsystem

- Excellent detection sensitivity via channelized input
- For each input band, the probability of intercept is nearly 100%
- Two primary functions:
 - Situational Awareness, Pulse Capture
 - Drives Situational Awareness Graphical Display
 - Generates post-detection pulse level data continuously; recordings are unattended through mission
 - Tabular list of emitter ID's with parameters, modulation types

Supports cycling across 3 inputs for RF / antenna field of view diversity

- Example; cycling between microwave & mmW bands
 - microwave band
 - mmWave Sub-Band 1
 - mmWave Sub-Band 2

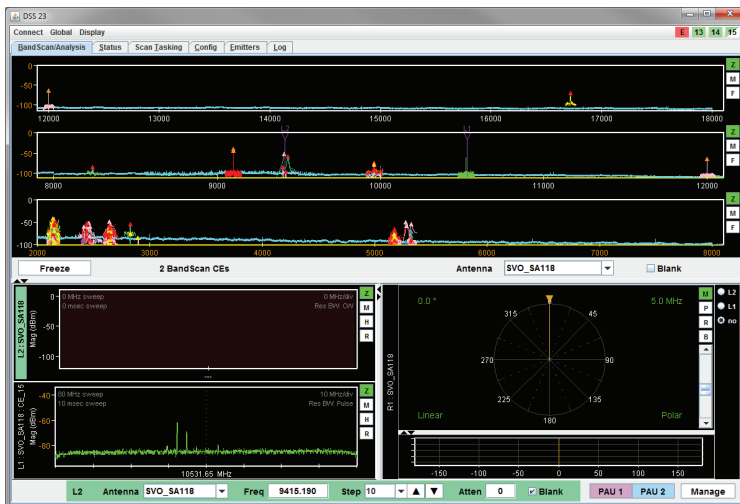
Interface to existing Platform RF Distribution

Consists of two chassis

- Downconverter unit (DCU)
- HPOI Receiver Processor (HRP)

Other benefits

- HPOI frees other assets so they might be used more for exploitation



HPOI Bandscan Situational Awareness & Controls



444 Salomon Circle | Sparks, NV 89434
775.331.0222 | mst@sncorp.com | sncorp.com

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