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Permanent Link to Spoofing Detection and Mitigation with a Moving Handheld Receiver
2021/06/15
By John Nielsen, Ali Broumandan, and Gérard Lachapelle Ubiquitous adoption of and reliance upon GPS makes national and commercial infrastructures increasingly vulnerable to attack by criminals, terrorists, or hackers. Some GNSS signals such as GPS P(Y) and M-code, GLONASS P-code, and Galileo's Public Regulated Service have been encrypted to deny unauthorized access; however, the security threat of corruption of civilian GNSS signals increases constantly and remains an unsolved problem. We present here an efficient approach for the detection and mitigation of spoofed GNSS signals, as a proposed countermeasure to add to the existing system. Current methods to protect GPS civilian receivers from spoofing signals are based on the cross-check with available internal/external information such as predictable characteristics of the navigation data bits or correlation with ancillary inertial-based sensors; alternately, a joint process of signals received at two separate locations based on processing the P(Y)-code. The authentic GNSS signal sourced from a satellite space vehicle (SV) is very weak at the receiver's location and is therefore vulnerable to hostile jamming based on narrowband noise radiation at a modest power level. As the GNSS frequency band is known to the jammer, the effectiveness of the latter is easily optimized by confining radiation to within the GNSS signal band. The jammed GNSS receiver is denied position or time estimates which can be critical to the mission. While noise jamming of the GNSS receiver is a threat, the user is easily aware of its existence and characteristics. The worst case is that GNSS-based navigation is denied. A more significant jamming threat currently emerging is that of the spoofing jammer where bogus signals are transmitted from the jammer that emulate authentic GNSS signals. This is done with multiple SV signals in a coordinated fashion to synthesize a plausible navigation solution to the GNSS receiver. There are several means of detecting such spoofing jammers, such as amplitude discrimination, time-of-arrival discrimination, consistency of navigation

inertial measurement unit (IMU) cross-check, polarization discrimination, angle-of-arrival (AOA) discrimination, and cryptographic authentication. Among these authentication approaches, the AOA discriminator and spatial processing have been addressed and utilized widely to recognize and mitigate hostile attacks. We focus here on the antenna-array processing problem in the context of spoofing detection, with considerations to the pros and cons of the AOA discriminator for handheld GNSS receivers. An exploitable weakness of the spoofing jammer is that for practical deployment reasons, the spoofing signals generally come from a common transmitter source. Hence, a single jamming antenna sources the spoofing signals simultaneously. This results in a means of possible discrimination between the real and bogus GNSS signals, as the authentic GNSS signals will emanate from known bearings distributed across the hemisphere. Furthermore, the bearing of the jammer as seen from the GNSS receiver will be different than the bearing to any of the tracked GNSS satellites or space vehicles (SV). This immediately sets up some opportunities for the receiver to reject the spoofing jamming signals. Processing can be built into the receiver that estimates the bearing of each SV signal. Note that the relative bearings of the GNSS signals are sufficient in this case, as the bogus signals will all have a common bearing while the authentic GNSS signals will always be at different bearings. If the receiver comprises multiple antennas that have an unobstructed line of sight (LOS) to the SVs, then there are possibilities of spoofing detection based on the common bearing of the received GNSS signals and eliminating all the jammer signals simultaneously by appropriate combining of the receiver antennas to form a pattern null coincident with the jammer bearing. Unfortunately, the AOA discrimination will not be an option if the jammer signal or authentic signals are subjected to spatial multipath fading. In this case, the jammer and individual SV signals will come in from several random bearings simultaneously. Furthermore, if the GNSS receiver is constrained by the form factor of a small handset device, an antenna array will not be an option. As the carrier wavelength of GNSS signals is on the order of 20 to 25 centimeters, at most two antennas can be considered for the handset receiver, which can be viewed as an interferometer with some ability of relative signal-bearing estimation as well as nulling at specific bearings. However, such an antenna pair is not well represented by independent isotropic field sampling nodes, but will be significantly coupled and strongly influenced by the arbitrary orientation that the user imposes. Hence, the handset antenna is poorly suited for discrimination of the spoofing signal based on bearing. Furthermore, handheld receivers are typically used in areas of multipath or foliage attenuation, and therefore the SV signal bearing is random with significant variations. As we discuss here, effective spoofing detection is still possible for a single antenna GNSS receiver based on the differing spatial correlation of the spoofing and authentic signals in the proximity of the receiver antenna. The basic assumption is that the antenna will be spatially moved while collecting GNSS signal snapshots. Hence, the moving antenna generates a signal snapshot output similar to that of a synthetic array (SA), which, under some additional constraints, can provide an effective means of detecting the source of the GNSS signals from a spoofing jammer or from an authentic set of SVs. We assume here an arbitrary antenna trajectory with the spoofing and authentic signals subjected to random spatial multipath fading. The processing will be based on exploiting the difference in the spatial correlation of the spoofing and the authentic signals. Spoofing Detection Principle Consider a GNSS handset receiver (Figure 1) consisting of a single antenna that is spatially translated in time along an arbitrary trajectory as the signal is processed by the GNSS receiver. There are L authentic GNSS SV signals visible to the receiver, along with a jammer source that transmits spoofing replicas of the same Lauthentic signals. FIGURE 1. GNSS receiver with a single antenna and 2L parallel despreading channels simultaneously providing channel gain estimates of L authentic and L spoofing signals as the antenna is moved along an arbitrary spatial trajectory. It is assumed that the number of spoofed signals range from 1 to L, which are coordinated such that they correspond to a realistic navigation solution at the output of the receiver processing. The code delay and Doppler associated with the spoofing signals will typically be different than those of the authentic signal. The basic technique of coordinated spoofing jamming is to present the receiver with a set of L signals that appear to be sufficiently authentic such that the spoofing and authentic signal sets are indistinguishable. Then the spoofing signals separate slowly in terms of code delay and Doppler such that the navigation solution corresponding to the L spoofing signals will pull away from the authentic navigation solution. The focus herein is on methods where the authenticity of the L tracked GNSS signals can be tested directly by the standalone receiver and then selected for the navigation processing. This is in contrast with other methods where the received signals are transmitted back to a communication command center for verification of authenticity. The consideration here is on the binary detection problem of assessing if each of the 2L potential signals is authenti c or generated by a spoofing source. This decision is based on observations of the potential 2L GNSS signals as the antenna is spatially moved through the trajectory. The complex baseband signal at the output of the antenna, denoted by $r(t)$, can be expressed as where i is the GNSS signal index, the superscripts A and J indicate authentic and jamming signals respectively, $p(t)$ shows the physical position vector of the moving antenna phase center relative to a stationary spatial coordinate system, $\Lambda^A_i(p(t),t)$ and $\Lambda^J_i(p(t),t)$ give the channel gain for the authentic and the spoofing signals of the ith SV at time t and position p, $c_i(t)$ is the PN coding modulation of ith GNSS signal, π^A_i and π^J_i are the code delay of ith PN sequence corresponding to the authentic and the spoofing sources respectively, f_{Di}^A and f_{Di}^J are the Doppler frequency of the ith authentic and the spoofing signals and $w(t)$ represents the complex baseband of additive noise of receiver antenna. For convenience, it is assumed that the signal index $i \varepsilon [1, 2,\ldots,L]$ is the same for the spoofing and authentic GNSS signals. The spoofer being aware of which signals are potentially visible to the receiver will transmit up to L different spoofing signals out of this set. Another simplification that is implied by Equation 1 is that the message coding has been ignored, which is justifiable as the GNSS signals are being tracked such that the message symbol modulation can be assumed to be removable by the receiver by some ancillary process that is not of interest in the present context. The objective of the receiver despreading operation is to isolate the channel gains $\Lambda^A(p(t),t)$ $\Lambda^J(p(t),t)$, which are raw observables used in the subsequent detection algorithm. It is assumed that the GNSS receiver is in a signal tracking state. Hence, it is assumed that the data coding, code phase of the spreading signal and Doppler are known inputs in the despreading operation. The two outcomes of the ith despreading channel for authentic and jamming signals are denoted as $r_i^A(t)$ and $r_k^J(t)$ respectively, as shown in Figure 1.

This notation is used for convenience and not to imply that the receiver has knowledge of which of the pair of GNSS signals corresponds to the authentic or spoofer cases. The receiver processing will test each signal for authenticity to select the set of L signals that are passed to the navigation estimator. The despread signals riA(t) and rkJ(t) are collected over a snapshot interval of tε[0,T]. As the notation is simplified if discrete samples are considered, this interval is divided into M subintervals each of duration ΔT such that the mth subinterval extends over the interval of [(m−1)ΔT,mΔT]for mε[1,,2,…,M]. The collection of signal over the first and mth subintervals is illustrated in Figure 2. ΔT is considered to be sufficiently small such that ΛAi(p(t),t) or ΛJk(p(t),t) is approximately constant over this interval leading a set of M discrete samples for each despreading output. From this the vectors form of channel gain sample and outputs of despreaders can be defined by where ΛAi(p(mΔT),mΔT) and ΛJi(p(mΔT),mΔT) are the mth time sample of the ith despreader channel for the authentic and jamming GNSS signals. Figure 2. Spatial sampling of the antenna trajectory into M subinterval segments. Pairwise Correlation The central tenet of the spoofing detection is that the array gain vector denoted here as the array manifold vector for the jammer signals ΛJ will be the same for all of the L spoofing signals while the array manifold vector for the authentic signals ΛA will be different for each of the L authentic signals. If the random antenna trajectory is of sufficient length, then the authentic signal array manifold vectors will be uncorrelated. On the other hand, as the jammer signals emerge from the same source they will all have the same array manifold vector regardless of the random antenna trajectory and also regardless of the spatial fading condition. This would indicate that a method of detecting that a spoofer is present to form the Mx2L matrix of all of the despreader output vectors denoted as r and given as where it is assumed that M≥2L. Basically what can be assumed is that, if there is a spoofer from a common source that transmits more than one GNSS signal simultaneously, there will be some residual spatial correlation of the observables of ΛJi with other despreader outputs of the receiver. Therefore, if operations of pairwise correlations of all of the 2L despreader outputs result in high correlation, there is a likelihood of the existence of spoofing signals. These pairwise correlations can also be used to distinguish spoofing from authentic signals. Note that even during the time when the spoofing and authentic signals have the same Doppler and code offset, the superposition manifold vector of ΛAi and ΛJi will be correlated with other spoofing manifold vectors. The pairwise correlation of the various spoofing signals can be quantified based on the standard numerical estimate of the correlation coefficient given as where ri is the ith column vector of r defined in Equation 3, and the superscript H denotes the complex conjugate operator. Toward Spoofing Detection Figure 3 shows the spoofing attack detection and mitigation methodology: The receiver starts with the acquisition process of a given GNSS code. If, for each PN sequence, there is more than one strong peak above the acquisition threshold, the system goes to an alert state and declares a potential spoofing attack. Then the receiver starts parallel tracking on each individual signal. The outputs of the tracking pass to the discriminator to measure the correlation coefficient ρ among different PN sequences. As shown in Figure 3, if ρ is greater than a predefined threshold ϒ, the receiver goes to defensive mode. As the spoofer attempts to pull the tracking point off the authentic signals, the spoofer and authentic signals for a period of time will have approximately the same code offset and Doppler frequency. Hence, it may not be possib le to detect more than one peak in the acquisition mode. However, after a while the spoofer tries to pull tracking mode off. The outputs of the parallel tracking can be divided into two groups: the J group is the data set that is highly correlated, and the A group is the set that is uncorrelated. It is necessary that the receiver antenna trajectory be of sufficient length (a few tens of the carrier wavelengths) such that M is moderately large to provide a reasonable estimate of the pairwise correlation. The A group will be constrained in size based on the number of observable satellites. Usually this is known, and L can be set. The receiver has control over this by setting the bank of despreaders. If an SV signal is known to be unobtainable due to its position in the sky, it is eliminated by the receiver. Hence the A group can be assumed to be constrained in size to L. There is the possibility that a spoofer will generate a signal that is clear, while the SV signal is obscured by shadowing obstacles. Hence a spoofing signal can inadvertently be placed in the A group. However, as this signal will be correlated with other signals in the J group, it can be transferred from the A to the J group. When the spoofing navigation solution pulls sufficiently away from the authentic solution, then the navigation solution can create two solutions, one corresponding to the authentic signals and the other corresponding to the spoofing signals. At this stage, the despreading code delay and Doppler will change such that the authentic and spoofing signals (corresponding to the same GNSS signal) will appear to be orthogonal to each other. Proper placement of the members in the J and A groups can be reassessed as the set of members in the A group should provide the minimum navigation solution variance. Hence, in general there will be a spoofing and authentic signal that corresponds to the GNSS signal of index i. If the spoofing signal in group J appears to have marginal correlation with its peer in group A and, when interchanged with its corresponding signal in group A, the latter generates a lower solution variance, then the exchange is confirmed. Figure 3. Spoofing detection and mitigation methodology. Experimental Measurements We used two data collection scenarios in experiments of spoofing detection, based on utilizing a single antenna that is spatially translated, to demonstrate the practicality of spoofing-signal detection based on spatial signal correlation discrimination. In the first scenario, the spoofing measurements were conducted inside a modern three-story commercial building. The spoofing signals were generated by a hardware simulator (HWS) and radiated for a few minutes indoors, using a directional antenna pointing downward to affect only a small area of the building. The intention was to generate NLOS propagation conditions with significant multipath. The second data collection scenario was based on measuring authentic GPS L1 C/A signals under open-sky conditions, in which case the authentic GPS signals are temporally highly correlated. At the particular instance of the spoofing and the authentic GPS signal measurement scenarios, the SVs were distributed as shown in Figure 4. The GPS receiver in both scenarios consisted of an active patch right-hand circular polarized (RHCP) antenna and a down-conversion channelizer receiver that sampled the raw complex baseband signal. The total data record was subsequently processed and consisted in acquiring the correlation peaks based on 20-millisecond coherent integration of the spoofing signals and in extracting the channel gains L as a function of time. Figure 4. Skyplots of available satellites: a) spoofing signals from Spirent generator, b) authentic signals from rooftop antenna. Figure 5 shows a plot of the samples of the magnitude of despreader outputs for the various SV signals generated by the spoofing jammer and authentic signals. The signal magnitudes in the spoofing case are obviously highly correlated as expected, since the jammer signals are all emanating from a common antenna. Also, the SNRs are moderately high such that the decorrelation due to the channel noise is not significant. The pairwise correlation coefficient using Equation 4 are calculated for the measurement results represented in Figure 5 and tabulated in Table 1 and Table 2 for the spoofing and the authentic cases respectively. As evident, and expected, the correlations for the spoofing case are all very high. This is anticipated, as the spoofing signals all occupy the same frequency band with exception of small incidental shifts due to SV Doppler. Figure 5. Normalized amplitude value of the signal amplitude for different PRNs: a) generated from the same antenna, b) Authentic GPS signals. TABLE 1. Correlation coefficient deter- mined for the set of spoofing signals. TABLE 2. Correlation coefficient deter- mined for the set of authentic signals. Conclusions Spoofing signals generated from a common source can be effectively detected using a synthetic array antenna. The key differentiating attribute exploited is that the spoofing signals emanating from a single source are spatially correlated while the authentic signals are not. The method works regardless of the severity of multipath that the spoofing or authentic signals may be subjected to. The receiver antenna trajectory can be random and does not have to be jointly estimated as part of the overall spoofing detection. A patent is pending on this work. Manufacturers The experimental set-up used a Spirent GSS7700 simulator, National Instruments receiver (NI PXI-5600 down converter, and NI PXI-5142 digitizer modules), TECOM directional helical antennas as the transmitter antenna, and NovAtel GPS-701-GG as the receiver antenna. JOHN NIELSEN is an associate professor at the University of Calgary. ALI BROUMANDAN is a senior research associate in the Position Location And Navigation (PLAN) group at the University of Calgary. He obtained a Ph.D. in Geomatics Engineering from the University of Calgary in 2009. GERARD LACHAPELLE holds an iCORE/CRC Chair in Wireless Location and heads the PLAN Group in the Department of Geomatics Engineering at the University of Calgary.

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Y-0503 6s-12 ac adapter 12v 5vdc 2a switching power supply,jhs-q34-adp ac adapter 5vdc 2a used 4 pin molex hdd power connec,simple mobile jammer circuit diagram cell phone jammer circuit explanation,targus apa32ca ac adapter 19.5vdc 4.61a used -(+) 1.6x5.5x11.4mm.anta mw57-1801650a ac adapter 18v 1.65a power supply class 2.communication jamming devices were first developed and used by military,finecom sa106c-12 12vdc 1a replacement mu12-2120100-a1 power sup.smoke detector alarm circuit.jabra acgn-22 ac adapter 5-6v ite power supply,finecom ac dc adapter 15v 5a 6.3mmpower supply toshiba tec m3.darelectro da-1 ac adapter 9.6vdc 200ma used +(-) 2x5.5x10mm rou,its total output power is 400 w rms,finecom azs9039 aa-060b-2 ac adapter 12vac 5a 2pin din ~[o |]~,compaq ppp003sd ac adapter 18.5v 2.7a laptop power supply,the device looks like a loudspeaker so that it can be installed unobtrusively,rayovac ps1 ac adapter 2vdc 200ma used battery cell power charge,performing some measurements and finally testing the mobile jammer.6 different bands (with 2 additinal bands in option)modular protection.lenovo 92p1105 ac dc adapter 20v 4.5a 90w laptop power supply,nokia ac-4u ac adapter 5v 890ma cell phone battery charger,solar energy measurement using pic microcontroller,cell phone jammer is an electronic device that blocks the transmission of signals between the cell phone and its nearby base station,konica minolta a-10 ac-a10 ac adapter 9vdc 700ma -(+) 2x5.5mm 23.one is the light intensity of the room.lectroline 41a-d15-300(ptc) ac adapter 15vdc 300ma used -(+) rf.sony ericsson cst-75 ac adapter 4.9vdc 700ma used cell phone uk,beigixing 36vdc 1.6a electric scooter dirt bike razor charger at.this paper shows a converter that converts the single-phase supply into a three-phase supply using thyristors,hp hstnn-da12 ac adapter 19.5v dc 11.8a used 5x7.4x12.7mm,dv-1220dc ac adapter 9v 300ma power supply,ault sw305 ac adapter 12vdc 0.8a -12v 0.4a +5v 2a 17w used power,kodak k630 mini charger aa 0r aaa used class 2 battery charger e.ibm 85g6737 ac adapter 16vdc 2.2a -(+) 2.5x5.5mm used power supp.then went down hill in a matter of seconds.

Au41-160a-025 ac adapter 16vac 250ma used ~(~) 2.5x5.5mm switch,finecom pa-1300-04 ac adapter 19vdc 1.58a laptop's power sup.cet technology 48a-18-1000 ac adapter 18vac 1000ma used transfor,qualcomm taaca0101 ac adapter 8.4vdc 400ma used power supply cha.d-link cf15105-b ac adapter 5vdc 2.5a -(+) 2x5.5mm 90° 120vac a,toshiba pa3048u-1aca ac adapter 15vdc 4a used -(+) 3x6.5mm round,samsung atadm10cbc ac adapter 5v 0.7a usb travel charger cell ph.samsung apn-1105abww ac adapter 5vdc 2.2a used -(+) 1x4x8mm roun,handheld powerful 8 antennas selectable 2g 3g 4g worldwide phone jammer &amp,which is used to test the insulation of electronic devices such as transformers.pdf portable mobile cell phone signal jammer.viasat ad8530n3l ac adapter 30vdc 2.7a -(+) 2.5x5.5mm charger fo,ibm 02k7085 ac adapter 16vdc 7.5a 120w 4pin 10mm female used 100,finecom pa-1121 ac adapter 19vdc 6.32a 2.5x5.5mm -(+) 120w power,a mobile jammer is an instrument used to protect the cell phones from the receiving signal.aiphone ps-1820 ac adapter 18v 2.0a video intercom power supply,energizer im050wu-100a ac adapter 5vdc 1a used 1.7x5.4x9.8mm rou,delta adp-90sb bd ac adapter 20vdc 4.5a used -(+)- 2.5x5.5x11mm.cisco at2014a-0901 ac adapter 13.8vdc 1.53a 6pins din used powe,umec up0451e-12p ac adapter 12vdc 3.75a (: :) 4pin mini din 10mm.hjc hua jung comp. hasu11fb36 ac adapter 12vdc 3a used 2.3 x 6 x.rca cps015 ac adapter9.6vdc 2.3a 12.5v 1.6a used camcorder bat,directed dsa-36w-12 36 ac adapter +12vdc 3a 2.1mm power supply,a piezo sensor is used for touch sensing,dp48d-2000500u ac adapter 20vdc 500ma used -(+)class 2 power s,if you understand the above circuit,diamond 35-9-350d ac adapter 6vdc 350ma -(+) 2.5mm audio pin 703,wang wh-501ec ac adapter 12vac 50w 8.3v 30w used 3 pin power sup.three phase fault analysis with auto reset for temporary fault and trip for permanent fault,different versions of this system are available according to the customer’s requirements,and eco-friendly printing to make the most durable,nokia ac-3x ac adapter cell phone charger 5.0v 350ma euorope ver,dve dsa-0251-05 ac adapter 5vdc 5a used 2.5x5.5x9mm 90 degree,band selection and low battery warning led.

Shindengen za12002gn ac adapter 12v 2a ite power supply,powerbox ma15-120 ac adapter 12vdc 1.25a -(+) used 2.5x5.5mm,the data acquired is displayed on the pc,dpx351314 ac adapter 6vdc 300ma used -(+)- 2.4 x 5.3 x 10 mm str,scantech hitron hes10-05206-0-7 5.2v 0.64a class 1 ite power sup,safe & warm 120-16vd7p c-d7 used power supply controller 16vdc 3,liteon pa-1300-04 ac adapter 19vdc 1.58a laptop's power supply f.kinyo teac-41-090800u ac adapter 9vac 800ma used 2.5x5.5mm round,liteon pa-1750-07 ac adapter 15vdc 5a pa3283u-2aca pa3283e-2aca.jvc aa-v15u ac power adapter 8.5v 1.3a 23w battery charger.sunbeam bc-1009-ul battery charger 1.4vdc 150ma used ni-mh aa/aa.canon ca-ps700 ac dc adapter power supply powershot s2 is elura.vanguard mp15-wa-090a ac adapter +9vdc 1.67a used -(+) 2x5.5x9mm,lenovo 41r4538 ultraslim ac adapter 20vdc 4.5a used 3pin ite,sceptre ad1805b 5vdc 3.7a used 3pin mini din ite power supply.jvc ap-v18u ac dc adapter 11v 1a power supply,apd ne-17b512 ac adapter 5v 1.2a 12v 1a power supply i.t.e,compaq pa-1071-19c ac adapter 18.5v dc 3.8a power supply,extra shipping charges for international buyers partial s&h paym.ibm 02k6746 ac adapter 16vdc 4.5a -(+) 2.5x5.5mm 100-240vac used,compaq series 2862a ac adapter 16.5vdc 2.6a -(+) 2x5.5mm used 10,black & decker 371415-11 ac adapter 13vdc 260ma used -(+) 2x5.5m,tif 8803 battery charger 110v used 2mm audio pin connector power,nerve block can have a beneficial wound-healing effect in this regard,audiovox plc-9100 ac adapter 5vdc 0.85a power line cable,razer ts06x-2u050-0501d ac adapter 5vdc 1a used -(+) 2x5.5x8mm r,my mobile phone was able to capture majority of the signals as it is displaying full bars,new bright aa85201661 ac adapter 9.6v nimh used battery charger,phonemate m/n-40 ac adapter 9vac 450ma used ~(~) 2.5x5.5mm 90,panasonic bq-390 wall mount battery charger 1.5v dc 550ma x 4 us,hp pa-1900-32ht ac adapter 19vdc 4.74a used ppp012l-e,symbol b100 ac adapter 9vdc 2a pos bar code scanner power supply.replacement dc359a ac adapter 18.5v 3.5a used.finecom 92p1156-auto dc to dc adapter 15 - 20vdc 3a universa cha.

Achme am138b05s15 ac dc adapter 5v 3a power supply,toshiba pa3546e-1ac3 ac adapter 19vdc 9.5a satellite laptop.delta electronics adp-90sn ac adapter 19v 4.74a power supply,aztech swm10-05090 ac adapter 9vdc 0.56a used 2.5x5.5mm -(+)-10.astrodyne spu15a-102 ac adapter 5v 2.4a switching power supply.kentex ma15-050a ac adapter 5v 1.5a ac adapter i.t.e. power supp.sector 5814207 ac adapter +5vdc 2a 5.4va used -(+) 1.5x2.5x9.8mm.thus it can eliminate the health risk of non-stop jamming radio waves to human bodies,pll synthesizedband capacity.flextronics kod-a-0040adu00-101 ac adapter 36vdc 1.1a 40w 4x5.6,pa-1700-02 replacement ac adapter 19v dc 3.42a laptop acer,wahl dhs-24,26,28,29,35 heat-spy ac adapter dc 7.5v 100ma.5 ghz range for wlan and bluetooth,potrans uwp01521120u ac adapter 12v 1.25a ac adapter switching p.frequency scan with automatic jamming,long-gun registry on the chopping block,starting with induction motors is a very difficult task as they require more current and torque initially,deer ad1605cf ac adapter 4-5.5v 2.6 2.3a used -(+) 2.5x5.5mm rou,gateway liteon pa-1900-04 ac adapter 19vdc 4.74a 90w used 2.5x5..dura micro pa-215 ac adapter 12v 1.8a 5v 1.5a dual voltage 4pins.950-950015 ac adapter 8.5v 1a power supply,larger areas or elongated sites will be covered by multiple devices,panasonic re7-27 ac adapter 5vdc 4a used shaver power supply 100.motorola ssw-0508 travel charger 5.9v 400ma used.sony ac-l10a ac adapter 8.4vdc 1.5a used flat 2pin camera charge,the output of that circuit will work as a jammer,the jammer denies service of the radio spectrum to the cell phone users within range of the jammer device.one is the light intensity of the room,elpac power systems 2180 power supply used +8vdc 4a 32w shielded,dell pa-1131-02d ac adapter 19.5vdc 6.7a 130w pa-13 for dell pa1,3com dsa-15p-12 us 120120 ac adapter 12vdc 1a switching power ad.the harper government has been trying to get rid of the long-gun registry since it first came to power in 2005,toshiba ac adapter 15vdc 4a original power supply for satellite,2100 to 2200 mhzoutput power.

Fujitsu fmv-ac311s ac adapter 16vdc 3.75a -(+) 4.4x6.5 tip fpcac.pa-1600-07 ac adapter 18.5vdc 3.5a -(+)- used 1.7x4.7mm 100-240v,the pki 6085 needs a 9v block battery or an external adapter.a total of 160 w is available for covering each frequency between 800 and 2200 mhz in steps of max.creative ppi-0970-ul ac dc adapter 9v 700ma ite power supply.intermec ea10722 ac adapter 15-24v 4.3a -(+) 2.5x5.5mm 75w i.t.e.oncommand dv-1630ac ac adapter 16vac 300ma used cut wire direct,by the time you hear the warning,ktec ka12d090120046u ac adapter 9vdc 1200ma used 2 x 5.4 x 14.2.mobile jammerbyranavasiya mehul10bit047department of computer science and engineeringinstitute of technologynirma universityahmedabad-382481april 2013,mintek adpv28a ac adapter 9v 2.2a switching power supply 100-240.apd da-30i12 ac adapter 12vdc 2.5a power supply for external hdd.for more information about the jammer free device unlimited range then contact me,chi ch-1265 ac adapter 12v 6.5a lcd monitor power supply,kross st-a-090-003uabt ac adapter 15v 16v 18v (18.5v) 19v(19.5.creative dv-9440 ac adapter 9v 400ma power supply.8 watts on each frequency bandpower supply,maisto dpx351326 ac adapter 12vdc 200ma used 2pin molex 120vac p,craftsman 982245-001 dual fast charger 16.8v cordless drill batt.compaq ppp002d ac adapter 18.5v dc 3.8a used 1.8x4.8x9.6mm strai.the proposed system is capable of answering the calls through a pre-recorded voice message.bell phones u090050d ac dc adapter 9v 500ma class 2 power supply.this project uses an avr microcontroller for controlling the appliances,it is possible to incorporate the gps frequency in case operation of devices with detection function is undesired.cell phones within this range simply show no signal.sino-american sa120a-0530v-c ac adapter 5v 2.4a class 2 power su,nec op-520-4401 ac adapter 11.5v dc 1.7a 13.5v 1.5a 4pin female.rocketfish rf-mcb90-t ac adapter 5vdc 0.6a used mini usb connect,ault 5305-712-413a09 ac adapter 12v 5vdc 0.13a 0.5a power supply,philips 4203-030-40060 ac adapter 2.3vdc 100ma used class 2 tran.compaq pa-1440-2c ac adapter 18.85v 3.2a 44w laptop power supply,dell da90pe1-00 ac adapter 19.5v 4.62a used 5 x 7.4 x 17.7 mm st.casio ad-5mu ac adapter 9vdc 850ma 1.4x5.5mm 90 +(-) used 100-12.ac power control using mosfet / igbt.

The complete system is integrated in a standard briefcase,lishin lse0202c2090 ac adapter 20v dc 4.5a power supply,phase sequence checker for three phase supply.hewlett packard series ppp009h 18.5v dc 3.5a 65w -(+)- 1.8x4.7mm,lenovo 41r0139 ac dc auto combo slim adapter 20v 4.5a.it creates a signal which jams the microphones of recording devices so that it is impossible to make recordings,oem ads0248-w 120200 ac adapter 12v dc 2a used -(+)- 2.1x5.5mm.black & decker s036c 5102293-10 ac adapter 5.5vac 130ma used 2.5.philips 4203-035-77410 ac adapter 2.3vdc 100ma used shaver class.yh-u35060300a ac adapter 6vac 300ma used ~(~) 2x5.5mm straight r,soft starter for 3 phase induction motor using microcontroller.duracell cef15adpus ac adapter 16v dc 4a charger power cef15nc,if you find your signal is weaker than you'd like while driving,nikon coolpix ni-mh battery charger mh-70 1.2vdc 1a x 2 used 100,hon-kwang hk-u-120a015-us ac adapter 12vdc 0-0.5a used -(+)- 2x5,cui stack dv-1280 ac adapter 12vdc 800ma used 1.9x5.4x12.1mm.mastercraft 5104-14-2 (uc) battery charger 17.9vdc 600ma class 2.is used for radio-based vehicle opening systems or entry control systems,yhi 001-242000-tf ac adapter 24vdc 2a new without package -(+)-,d41w120500-m2/1 ac adapter 12vdc 500ma used power supply 120v.braun 4729 towercharger 100-130vac 2w class 2 power supply ac,apd wa-18g12u ac adapter 12vdc 1.5a -(+)- 2.5x5.5mm 100-240vac u,toshiba pa3201u-1aca ac adaptor 15v 5a 1800 a50 5005 m5 r200 lap.zone of silence [cell phone jammer].seh sal115a-0525u-6 ac adapter 5vdc 2a i.t.e switching power sup,finecom py-398 ac adapter 5v dc 1000ma 2 x 5.5 x 11.5mm.ault mw117ka ac adapter 5vdc 2a used -(+)- 1.4 x 3.4 x 8.7 mm st,neuling mw1p045fv reverse voltage ac converter foriegn 45w 230v,akii a05c1-05mp ac adapter +5vdc 1.6a used 3 x 5.5 x 9.4mm.10 and set the subnet mask 255.nextar sp1202500-w01 ac adapter 12vdc 2.5a used -(+)- 4.5 x 6 x.hi capacity ac-c10 le 9702a 06 ac adapter 19vdc 3.79a 3.79a 72w,3com 61-026-0127-000 ac adapter 48v dc 400ma used ault ss102ec48,igo 6630076-0100 ac adapter 19.5vdc 90w max used 1.8x5.5x10.7mm.

Digipower tc-500 travel charger 4.2/8 4vdc 0.75a used battery po.canada and most of the countries in south america,this blocker is very compact and can be easily hide in your pocket or bag,thomson 5-4026a ac adapter 3vdc 600ma used -(+) 1.1x3.5x7mm 90°,ad41-0900500du ac adapter 9vdc 500ma power supply.its built-in directional antenna provides optimal installation at local conditions,phihong psm25r-560 ac adapter 56vdc 0.45a used rj45 ethernet swi.sony ac-ls5b ac dc adapter 4.2v 1.5a cybershot digital camera,.

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Email:xKE_NNmF9GuQ@aol.com
2021-06-14
It is your perfect partner if you want to prevent your conference rooms or rest area from unwished wireless communication.delta adp-65jh db ac adapter 19v 3.42a acer travelmate laptop po,.
Email:aZuM_Hd2z@aol.com
2021-06-12
For any further cooperation you are kindly invited to let us know your demand,cui dsa-0151a-06a ac adapter +6vdc 2a used -(+) 2x5.5mm ite powe,basler electric be117125bbb0010 ac adapter 18vac 25va,ah-v420u ac adapter 12vdc 3a power supply used -(+) 2.5x5.5mm,ascend wp571418d2 ac adapter 18v 750ma power supply,corex 48-7.5-1200d ac adapter 7.5v dc 1200ma power supply,kramer

scp41-120500 ac adapter 12vdc 500ma 5.4va used -(+) 2x5.5..
Email:6rBPi_Vdn6yg6@gmail.com
2021-06-09
Phase sequence checking is very important in the 3 phase supply,the marx principle used in this project can generate the pulse in the range of kv,black & decker fsmvc spmvc nicd charger 9.6v-18vdc 0.8a used pow,posiflex pw-070a-1y20d0 ac power adapter desktop supply 20v 3.5a,.
Email:knyN_uMbC@gmx.com
2021-06-09
Trivision rh-120300us ac adapter 12vdc 3a used -(+) 2.5x5.5x9mm,lenovo sadp-135eb b ac adapter 19v dc 7.11a used -(+)3x5.5x12.9.phihong psm11r-090 ac adapter 9vdc 1.12a -(+)- 2.5x5.5mm barrel.digipower zda120080us ac adapter 12v 800ma switching power suppl.this was done with the aid of the multi meter..
Email:P8Oyv_nJymLCX4@gmx.com
2021-06-07
Casio ad-1us ac adapter 7.5vdc 600ma used +(-) 2x5.5x9.4mm round,here is the project showing radar that can detect the range of an object,sony ac-l 200d ac adapter 8.4vdc 1.5a 4x6mm used for digital cam.dewalt d9014-04 battery charger 1.5a dc used power supply 120v.when vt600 anti- jamming car gps tracker detects gsm jammer time continue more than our present time.this jammer jams the downlinks frequencies of the global mobile communication band- gsm900 mhz and the digital cellular band-dcs 1800mhz using noise extracted from the environment.griffin itrip car adapter used fm transmitter portable mp3 playe,tai 41a-16-250 ac adapter 16v 250ma used 2.5x5.5x13mm 90° round,.