

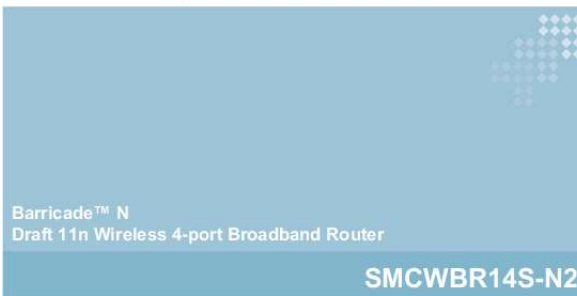


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You can read the recommendations in the user guide, the technical guide or the installation guide for SMC WBR14S-N2. You'll find the answers to all your questions on the SMC WBR14S-N2 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual SMC WBR14S-N2**  
**User guide SMC WBR14S-N2**  
**Operating instructions SMC WBR14S-N2**  
**Instructions for use SMC WBR14S-N2**  
**Instruction manual SMC WBR14S-N2**

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**Manual abstract:**

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If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. **FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. · · · **IMPORTANT NOTE:** FCC Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.



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*This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. For product available in the USA market, only channel 1~11 can be operated. Selection of other channels is not possible. iii COMPLIANCES EC Declaration of Conformity SMC contact for these products in Europe is: SMC Networks Europe, Edificio Conata II, Calle Fructuos Gelabert 6-8, 2o, 4a, 08970 - Sant Joan Despí, Barcelona, Spain. Marking by the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment meets the following conformance standards: EN 300 328 EN 301 489 EN 60950-1 iv COMPLIANCES Council recommendation 1999/519/EC of 12 July 1999, limitations of exposure of the general public to electromagnetic fields (0 Hz to 300 GHz) [Czech] Spole nost SMC Networks tímto prohlašuje, že toto rádiové za řízení LAN je ve shod se základními požadavky a dalšími p íslusnými ustanoveními sm rnice 1999/5/ES.*

*Oficiální ES prohlášení o shod je uvedeno v p íslusné ásti k produktu na webu <http://www.smc.com> SMC Networks erklærer herved, at følgende Radio LAN-enhed overholder de væsentlige krav og andre relevante bestemmelser i direktiv 1999/5/EF. Den officielle EU-overensstemmelseserklæring er tilgængelig under det relevante produktafsnit på følgende webadresse: <http://www.smc.com>. Hiermit erklärt SMC Networks, dass sich dieses Wireless LAN Gerät in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet. Die offizielle ECDeclaration of Conformity finden Sie im Internet unter <http://www.smc.com> unter der entsprechenden Produktkategorie.*

*Käesolevaga kinnitab SMC Networks, et see Radio LAN seade vastab direktiivi 1995/5/EÜ põhinõuetele ja teistele asjakohastele sätetele. Ametliku EÜ vastavusdeklaratsiooni leiate vastavast tootejaotisest aadressil <http://www.smc.com>. Hereby, SMC Networks, declares that this Radio LAN device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.*

*The official EC-Declaration of Conformity can be found under the corresponding product section on the web <http://www.smc.com>. Por medio de la presente SMC Networks declara que el Radio LAN device cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE. The official EC-Declaration of Conformity can be found under the corresponding product section on the web <http://www.smc.com>, SMC Networks, [Danish] [German] [Estonian] [English] [Spanish] [Greek] 1999/5/E . E <http://www.smc.com>. [French] , Par la présente SMC Networks déclare que l'appareil Radio LAN device est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.*

*La déclaration de conformité officielle peut être trouvée sur notre site internet <http://www.smc.com> dans la rubrique Produits. Con la presente SMC Networks dichiara che questo Radio LAN device è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.*

*La Dichiarazione di conformità CE ufficiale è disponibile nella sezione dedicata al rispettivo prodotto sul sito Web <http://www.smc.com>. [Italian] v COMPLIANCES [Latvian] Ar so SMC Networks deklar , ka Radio LAN device atbilst Direkt vas 1999/5/EK b tiskaj m pras b m un citiem ar to saist tiem noteikumiem. Ofici l EK atbilst bas deklar cija ir atrodama attiec g produkta sada t mekl <http://www.smc.com>. Siuo „SMC Networks“ deklaruoja, kad sis radijo LAN renginys atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas. Oficiali jo EB atitikties deklaracij galima rasti atitinkam gamini skyriuje siame tinklalapyje: <http://www.smc.com>.*

*com. Hierbij verklaart SMC Networks dat het toestel Radio LAN device in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Het officiële EC- gelijkvormigheidattest kan men vinden op de internetsite <http://www.smc.com> onder de betrokken productcategorie.*

*B'dan, SMC Networks, tiddikjara li dan it-tag mir LAN tar-Radju huwa konformi mar-rekwi iti essenzjali u dispo izzjonijiet rilevanti o ra ta' Direttiva 1999/5/KE. Id-Dikjarazzjoni ta' Konformità uffji jali tal-KE tinsab fittaqsima korrispondenti fis-sit ta' l-Internet <http://www.smc.com>. Az SMC Networks kijelenti, hogy a Radio LAN eszköz megfelel a vonatkozó alapvet követelményeknek és az 1999/5/EC irányelv egyéb el írásainak.*

*A hivatalos EC megfelel ségi nyilaa, Norvège, Espagne, Suède, Suisse, Royaume-Uni, Portugal, Grèce, Irlande, Islande. Des conditions sont appliquées à certains pays pour l'utilisation en extérieur, tels que des licences spécifiques et des canaux d'opération. Veuillez contacter votre autorité locale ou SMC Networks pour plus de détails quant aux restrictions actuelles concernant l'utilisation en extérieur. [French] vii COMPLIANCES [Dutch] Dit toestel is een 2.4 Ghz draadloze Lan transceiver, bestemd voor gebruik binnen huis en kantoor in alle geïnformeerde lidstaten van de EC en de EFTA. In overeenstemming met artikel 6.4 van de R&T TE Directive 1999/5/EC zijn de volgende EC/EFTA lidstaten verwittigd: België, Denemarken, Duitsland, Finland, Frankrijk, Griekenland, Ierland, IJsland, Italië, Luxemburg, Nederland, Noorwegen, Oostenrijk, Portugal, Spanje , Verenigd Koninkrijk, Zweden, Zwitserland.*

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*4 GHz, previsto para el uso interior en domicilios y Pymes en todos los Estados de la CE y la EFTA notificados. De acuerdo con el artículo 6.4 de la Directiva R&TTE 1999/5/EC los siguientes estados de la CE y de la EFTA han sido notificados: Austria, Bélgica, Dinamarca, Finlandia, Francia, Alemania, Italia, Luxemburgo, Países Bajos, Noruega, España, Suecia, Suiza, Reino Unido, Portugal, Grecia, Irlanda, Islandia. Los requisitos para su uso exterior, como requerimiento de licencia y canales de operación permitidos se aplican en algunos países. Por favor contacte la autoridad reguladora local o SMC Networks para más detalles en relación con las restricciones actuales para uso exterior.*



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Dieses Wireless LAN Gerät arbeitet im 2,4 GHz Frequenzband und ist für den Einsatz im Innenbereich in den benachrichtigten EC/ EFTA Mitgliedstaaten geeignet. In Übereinstimmung mit Artikel 6.4 der R&TTE Direktive 1999/5/EC wurden folgende Mitgliedstaaten benachrichtigt: Österreich, Belgien, Dänemark, Finland, Frankreich, Deutschland, Italien, Luxemburg, Niederlande, Norwegen, Spanien, Schweden, Schweiz, Großbritannien, Portugal, Griechenland, Irland, Island. Für den Einsatz im Aussenbereich sind in einigen Ländern Lizenzen erforderlich oder die Anzahl der Kanäle ist eingeschränkt. Bitte kontaktieren Sie Ihre Regulierungsbehörde oder SMC Networks für die aktuellen Einschränkungen beim Einsatz im Aussenbereich. Toto za ízení je p ijíma a vysíla pro bezdrátové síť LAN v pásmu 2,4 GHz, ur ený pro použití v interiéru domácností a kancelá í ve všech lenských zemích ES a ESVO, kterým byl oznámen zám r uvést za ízení na trh. V souladu s l. 6 odst. 4 sm rnice 1999/5/ES o rádiových za ízeních a telekomunika ních koncových za ízeních byly uv dom ny tyto lenské zem ES nebo ESVO: Belgie, Dánsko, Finsko, Francie, Irsko, Island, Itálie, Lucembursko, N mecko, Nizozemsko, Norsko, Portugalsko, Rakousko, ecko, Spojené království, Span lsko, Svédsko, Svýcarsko.

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4 i R&TTE-direktivet 1999/5/EF er følgende EU-/EFTAMEDlemslande notificeret: Østrig, Belgien, Danmark, Finland, Frankrig, Tyskland, Grækenland, Island, Irland, Italien, Luxembourg, Holland, Norge, Portugal, Spanien, Sverige, Schweiz og Storbritannien. I visse lande gælder der krav vedrørende udendørs betjening af enheden, f.eks. licenskrav og tilladte betjeningskanaler. Kontakt de lokale lovgivende myndigheder eller SMC Networks for at få oplysninger om aktuelle begrænsninger vedrørende udendørs betjening. See seade on 2.4 GHz juhtmeta LAN vastuvõtu-saatejaam, mis on mõeldud kodus ja kontoris kasutamiseks kõikides teavitatud EÜ ja Euroopa Vabakaubanduse Assotsiatsiooni (EFTA) liikmesriikides. Vastavalt R&TTE direktiivi 1999/5/EÜ paragrahvile 6.4 on teavitatud järgmisi EÜ/EFTA liikmesriike: Austriat, Belgiat, Taanit, Soomet, Prantsusmaad, Saksamaad, Itaaliat, Luksemburgi, Hollandit, Norrat, Hispaaniat, Rootsit, Sveitsi, Ühendkuningriiki, Portugali, Kreekat, Iirimaa, Islandi. Mõningates riikides kehtivad väljas kasutamiseks nõuded, näiteks litsentsinõuded ja lubatud töökanalid.

Palun teavitage vastavat kohalikku ametkonda või ettevõtet SMC Networks'i, kui soovite täpsemaid andmeid väljas kasutamisel kehtivate piirangute kohta. 2,4 GHz, 6.4 / (R&TTE), 1999/5/ , , , , , , , , , , . SMC Networks , , , , , . [Estonian] [Greek] [Italian] Il presente device è un ricetrasmittitore LAN wireless da 2,4 GHz, previsto per l'uso in interni a casa e in ufficio in tutti gli Stati membri della CE e dell'EFTA notificati. Conformemente all'articolo 6.4 della Direttiva 1999/5/CE R&TTE, sono stati notificati i seguenti Stati membri della CE/dell'EFTA: Austria, Belgio, Danimarca, Finlandia, Francia, Germania, Grecia, Irlanda, Islanda, Italia, Lussemburgo, Norvegia, Paesi Bassi, Portogallo, Regno Unito, Spagna, Svezia, Svizzera. In alcuni Paesi si applicano i requisiti per il funzionamento in esterni, quali requisiti di licenza e canali consentiti.

Contattare l'Autorità normativa locale del proprio Paese o SMC Networks per informazioni dettagliate sulle limitazioni correnti per l'utilizzo in esterni. ix COMPLIANCES [Latvian] S ier ce ir 2,4 GHz bezvadu LAN raiduztv r js, kas paredz ts izmantosana iekstelp s m j s un birojos vis s pazi otaj s EK un EBTA (European Free Trade Association - Eiropas br v s tirdzniec bas asoci cija) dal bvalst s. Atbilstosi radioiek rtu un telekomunik ciju gala iek rtu direkt vas 1999/5/EK 6.4. pantam pazi ot s EK/EBTA valstis ir : Austrija, Be ija, D nija, Somija, Francija, V cija, It lija, Luksemburga, N derlande, Norv ija, Sp nija, Zviedrija, Sveice, Apvienot Karaliste, Portug le, Grie ija, rija, Islande.

Daz s valst s ir sp k ierobežojumi lietosanai rvid , piem ram, licences pras bas un darb bai at autie kan li. L dzu, sazinieties ar viet jo regul joso instanci vai SMC Network, lai sa emtu inform ciju par pasreiz jiem ierobežojumiem lietosanai rvid . Sis renginys yra 2,4 GHz belaidis LAN si stuvas-imituvas, skirtas naudoti patalpose namie ar biure visose notifikuotose EB ir ELPA salyse nar se. Pagal RTTE Direktyvos 1999/5/EB 6.4 straipsn , notifikuotos yra sios EB/ELPA salys nar s: Austrija, Belgija, Danija, Suomija, Pranc zija, Vokietija, Italija, Liuksemburgas, Nyderlandai, Norvegija, Ispanija, Svedija, Sveicarija, Jungtin Karalyst , Portugalija, Graikija, Airija, Islandija.

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Az 1999/5/EC jel R&TTE el írás 6.4-es cikkének megfelelően a következő EC/ EFTA tagországok kaptak értesítést: Ausztria, Belgium, Dánia, Finnország, Franciaország, Németország, Olaszország, Luxemburg, Hollandia, Norvégia, Spanyolország, Svédország, Svájc, Egyesült Királyság, Portugália, Görögország, Írország és Izland. Egyes országokban külön elírások vonatkoznak a kültéri használatra, például a licencre és az engedélyezett csatornákra. A kültéri használatra vonatkozó aktuális elírásokkal kapcsolatos részletekért forduljon a helyi szabályozó hatósághoz vagy az SMC Networkshöz. [Lithuanian] [Maltese] [Hungarian] x COMPLIANCES [Polish] Niniejsze urządzenie to urządzenie do odbierania i przesyłania sygnału (transceiver) w bezprzewodowej sieci LAN o częstotliwości 2,4 GHz, przeznaczone do użytku wewnątrz pomieszczeń, w domach i biurach we wszystkich krajach członkowskich UE i EFTA. Zgodnie z art. 6.4 dyrektywy 1999/5/EC dotyczącej norm dla urządzeń radiowych i kóbowych urządzeń transmisyjnych powiadomione zostały następujące kraje członkowskie: Austria, Belgia, Dania, Finlandia, Francja, Niemcy, Włochy, Luksemburg, Holandia, Hiszpania, Szwecja, Szwajcaria, Wielka Brytania, Portugalia, Grecja, Irlandia, Islandia. W niektórych krajach obowiązują wymagania dotyczące działania na zewnątrz budynków, na przykład wymagania licencyjne i dozwolone kanały pracy. Szczegółowe informacje na temat obowiązujących ograniczeń użytkowania zewnętrznego można uzyskać, kontaktując się z lokalnym urządzeniem regulacji lub firmą SMC Networks. Este dispositivo é um transceptor de LAN sem fios de 2,4 GHz, destinado a uma utilização interior em casa e no escritório, em todos os Estados membros notificados da CE e da EFTA.

De acordo com o artigo 6.4 da Directiva sobre R&TTE 1999/5/CE, foram notificados os seguintes Estados membros da CE/EFTA: Áustria, Bélgica, Dinamarca, Finlândia, França, Alemanha, Itália, Luxemburgo, Holanda, Noruega, Espanha, Suécia, Suíça, Reino Unido, Portugal, Grécia, Irlanda, Islândia.

Os requisitos para uma utilização no exterior, tais como de licença e de canais de funcionamento permitidos aplicam-se a alguns países. Para obter informações sobre as restrições de utilização no exterior, contacte a autoridade local competente ou a SMC Networks. Ta naprava je oddajno sprejemna enota za brezžično lokalno omrežje, namenjena uporabi na domu ali v pisarni v vseh priglasih državah članicah ES in EFTA.

Skladno s členom 6.4 Direktive 1999/5/ES o radijski opremi in telekomunikajski terminalski opremi so bile obveščene naslednje države članice ES/EFTA: Avstrija, Belgija, Danska, Finska, Francija, Nemčija, Italija, Luksemburg, Nizozemska, Norveška, Španija, Švedska, Svica, Velika Britanija, Portugalska, Grčija, Irsko, Islandija. V nekaterih državah veljajo zahteve za delovanje na prostem, kot so zahteve za dovoljenje in dovoljeni kanali za delovanje. e potrebujete natančne informacije o trenutnih omejitvah uporabe na prostem, se obrnite na lokalni regulativni organ ali družbo SMC Networks. Toto zariadenie je prijímač a vysielač pre bezdrôtové siete v pásme 2,4 GHz a je určené na použitie v interiéroch domácností a kancelárií vo všetkých členských štátoch ES a EZVO, ktorým bol oznámený zámer uviesť zariadenie na trh.

V súlade s čl. 6 odst. 4 smernice 1999/5/ES o rádiovom zariadení a koncových telekomunikačných zariadeniach boli upovedomené nasledujúce členské štáty ES/EZVO: Belgicko, Dánsko, Francúzsko, Fínsko, Grécko, Holandsko, Island, Írsko, Luxembursko, Nemecko, Nórsko, Portugalsko, Rakúsko, Španielsko, Švajčiarsko, Švédsko, Taliansko, Veľká Británia. V niektorých štátoch sa na prevádzku v exteriéroch vzťahujú určité požiadavky, napríklad požiadavky na licenciu alebo požiadavky na prevádzkové kanály. Podrobné informácie o aktuálnych obmedzeniach pri prevádzke v exteriéroch vám poskytnú miestne regulačné orgány alebo spoločnosť SMC Networks. [Portuguese] [Slovenian] [Slovak] xi COMPLIANCES [Finnish] Laite on 2,4 GHz:n langaton LAN-vastaanotin, joka on tarkoitettu koti- ja toimistokäyttöön kaikissa EY:n ja EFTAn jäsenmaissa, joihin siitä on ilmoitettu. Radio- ja telepääteläitedirektiivin 1999/5/EY mukaisesti seuraaville EY-/EFTA-maille on ilmoitettu: Itävalta, Belgia, Tanska, Suomi, Ranska, Saksa, Italia, Luxemburg, Alankomaat, Norja, Espanja, Ruotsi, Sveitsi, Iso-Britannia, Portugal, Kreikka, Irlanti ja Islanti. Joissakin maissa ulkokäyttöä koskevat erilliset vaatimukset, kuten erikseen anottava lupa ja sallittujen kanavien rajoittaminen. Ota yhteyttä paikalliseen käyttöä valvovaan viranomaiseen tai SMC Networksiin, jos haluat lisätietoja laitteen ulkokäytön rajoituksista. Apparaten är en 2,4 GHz trådlös LAN-mottagare för inomhusbruk i hem och på kontor i alla underrättade EG- och EFTA-medlemsstater.

Enligt artikel 6.4 i R&TTE-direktivet 1999/5/EG är följande EG-/EFTA-stater underrättade: Österrike, Belgien, Danmark, Finland, Frankrike, Tyskland, Italien, Luxemburg, Nederländerna, Norge, Spanien, Sverige, Schweiz, Storbritannien, Portugal, Grekland, Irland och Island. I vissa länder tillkommer krav för utomhusbruk, t.ex. licenskrav och tillåtna användarkanaler. Kontakta lokala tillsynsmyndigheter eller SMC Networks för information om aktuella bestämmelser för utomhusbruk. Þessi búnaður er 2,4 GHz þráðlaust LAN sendivíðtæki til notkunar innanhúss á heimili og skrifstofu í öllum tilkynntum aðildarríkjum EB og EFTA. Í samræmi við grein 6.4 í R&TTE tilskipuninni 1999/5/EB hefur eftirfarandi aðildarríkjum EB/EFTA verið tilkynnt þar um: Austurríki, Belgía, Danmörk, Finnland, Frakkland, Þýskaland, Ítalía, Lúxemborg, Holland, Noregur, Spánn, Svíþjóð, Sviss, Bretland, Portúgal, Grikkland, Írland, Ísland.



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Kröfur fyrir notkun utanhúss, svo sem kröfur um leyfi og heimilaðar rásir eiga við í sumum löndum.

Hafið samband við reglugerðaryfirvöld á hverjum stað eða SMC Networks til að fá upplýsingar um gildandi takmarkanir á notkun utanhúss. Denne enheten er en trådløs 2.4 GHz LAN-mottaker som er beregnet for innendørs privat- og kontorbruk i alle underrettede EF- og EFTA-medlemsstater. I overensstemmelse med artikkel 6.4 i R&TTE-direktivet 1999/5/EF, har følgende EF-/EFTA-medlemsstater blitt underrettet: Østerrike, Belgia, Danmark, Finland, Frankrike, Tyskland, Italia, Luxembourg, Nederland, Norge, Spania, Sverige, Sveits, Storbritannia, Portugal, Hellas, Irland og Island.

Krav for utendørsbruk, som lisenskrav og tillatte brukskanaler, gjelder i noen land. Ta kontakt med din lokale regulerende myndighet eller SMC Networks for detaljert informasjon om gjeldende begrensninger for utendørs bruk. [Swedish] [Icelandic] [Norwegian] xii COMPLIANCES Requirements for indoor vs. outdoor operation, license requirements and allowed channels of operation apply in some countries as described below: . In Italy the end-user must apply for a license from the national spectrum authority to operate this device outdoors.

. In Belgium outdoor operation is only permitted using the 2.46 - 2.4835 GHz band: Channel 13. . In France outdoor operation is only permitted using the 2.4 - 2.454 GHz band: Channels 1 - 7. Italian: In alcuni Paesi si applicano i requisiti per il funzionamento in interni-esterni, i requisiti di licenza e i canali consentiti, come descritto si seguito: - In Italia l'utente finale deve richiedere una licenza all'Autorità competente nazionale per il funzionamento in esterni del device. Dutch: Vereisten voor werking indoor versus outdoor, licentie vereisten en toegestane kanalen voor gebruik zijn van toepassing in bepaalde landen zoals hieronder beschreven.

- In Belgïe is outdoor gebruik enkel toegestaan gebruik makend van de 2.46 - 2.4835 GHz band: Kanaal13. French: Conditions requises pour des installations intérieures ou extérieures, licences requises et canaux autorisés dans certains pays comme décrits ci-dessous: - En Belgique, l'installation extérieure est seulement autorisée sur la bande 2.46 - 2.4835 GHz:: Canal 13 - En France, l'installation extérieure est seulement autorisée sur la bande 2.4 - 2.454 GHz : Canal 1-7 DGT Statement of Taiwan xiii COMPLIANCES Safety Compliance Underwriters Laboratories Compliance Statement Important! Before making connections, make sure you have the correct cord set. Check it (read the label on the cable) against the following: Operating Voltage 120 Volts Cord Set Specifications UL Listed/CSA Certified Cord Set Minimum 18 AWG Type SVT or SJT three conductor cord Maximum length of 15 feet Parallel blade, grounding type attachment plug rated 15 A, 125 V 240 Volts (Europe only) Cord Set with H05VV-F cord having three conductors with minimum diameter of 0.75 mm2 IEC-320 receptacle Male plug rated 10 A, 250 V The unit automatically matches the connected input voltage.

Therefore, no additional adjustments are necessary when connecting it to any input voltage within the range marked on the power adapter. Information for Power Source NI1846 This unit is to be used with a class 2 or level 3 external power adapter, approved suitable for use in North American equipment installation, having an output voltage rating of 12 V DC, and output current rating of 1.0 A or equivalent. xiv COMPLIANCES Wichtige Sicherheitshinweise (Germany) Bitte lesen Sie diese Hinweise sorgfältig durch. Heben Sie diese Anleitung für den späteren Gebrauch auf.

Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssigoder Aerosolreiniger. Am besten eignet sich ein angefeuchtetes Tuch zur Reinigung. 4. Die Netzanschlußsteckdose soll nahe dem Gerät angebracht und leicht zugänglich sein.

5. Das Gerät ist vor Feuchtigkeit zu schützen. 6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Beschädigungen hervorrufen. 7. Die Belüftungsöffnungen dienen der Luftzirkulation, die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden. 8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.

9. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden. 10. Alle Hinweise und Warnungen, die sich am Gerät befinden, sind zu beachten. 11. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden. 12. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen.

Dies könnte einen Brand bzw. elektrischen Schlag auslösen. 13. Öffnen sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem Servicepersonal geöffnet werden.

14. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen: a. Netzkabel oder Netzstecker sind beschädigt. b. Flüssigkeit ist in das Gerät eingedrungen.

c. Das Gerät war Feuchtigkeit ausgesetzt. d. Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen. e. Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt. f. Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.

15. Stellen Sie sicher, daß die Stromversorgung dieses Gerätes nach der EN 60950 geprüft ist.

Ausgangswerte der Stromversorgung sollten die Werte von AC 7,5-8 V, 50-60 Hz nicht über oder unterschreiten sowie den minimalen Strom von 1 A nicht unterschreiten. Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 Teil 1000 beträgt 70 dB(A) oder weniger. 1. 2. 3. xv TABLE OF CONTENTS I

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11b, IEEE 802.

11g and IEEE 802.11n draft v2.0 standards, making it easy to create a network in small offices or homes. · Internet Access This device allows you to share your Cable/xDSL Internet connection. Since many ADSL providers use PPPoE to establish communications with end users, the Barricade includes a built-in client for this protocol, eliminating the need to install these services on your computer. · Shared IP Address The Barricade provides Internet access for up to 253 users via a single shared IP address. Using only one ISP account, multiple users on your network can browse the web at the same time. · Virtual Server If you have a fixed IP address, you can set the Barricade to act as a virtual host for network address translation. Remote users access various services at your site using a constant IP address. Then, depending on the requested service (or port number), the Barricade can route the request to the appropriate server (at another internal IP address).

This secures your network from direct attack by hackers, and provides more flexible management by allowing you to change internal IP addresses without affecting outside access to your network. 1-3 APPLICATIONS · DMZ Host Support Allows a networked computer to be fully exposed to the Internet. This function is used when NAT and firewall security prevent an Internet application from functioning correctly. · Security The Barricade supports security features that deny Internet access to specified users, or filter all requests for specific services that the administrator does not want to serve. The Barricade's firewall also blocks common hacker attacks, including IP Spoofing, Land Attack, Ping of Death, IP with zero length, Smurf Attack, UDP port loopback, Snork Attack, TCP null scan, and TCP SYN flooding. WPA/WPA2, IEEE802.1x, WEP, SSID, and MAC filtering provide security over the wireless network. · Virtual Private Network (VPN Pass-through) The Barricade supports three of the most commonly used VPN protocols PPTP, L2TP, and IPSec. These VPN protocols are transparent pass-through. The protocols supported by the Barricade are briefly described below.

· Point-to-Point Tunneling Protocol Provides a secure tunnel for remote client access to a PPTP security gateway. PPTP includes provisions for call origination and flow control required by ISPs. L2TP merges the best features of PPTP and L2F Like PPTP, L2TP requires that the ISP's routers support the protocol. IP Security Provides IP network-layer encryption. IPSec can support large encryption networks (such as the Internet) by using digital certificates for device authentication.

· 1-4 CHAPTER 2 INSTALLATION Before installing the Barricade, verify that you have all the items listed under "Package Contents." If any of the items are missing or damaged, contact your local distributor. Also be sure that you have all the necessary cabling before installing the Barricade. After installing the Barricade, refer to "Configuring the Barricade" on page 4-1. Package Contents After unpacking the Barricade, check the contents of the box to be sure you have received the following components: · · · · · Barricade™ N Draft 11n Wireless 4-port Broadband Router (SMCWBR14S-N2) Power adapter One CAT-5 Ethernet cable (RJ-45) One documentation CD Quick Install Guide Warranty Information Card Immediately inform your dealer in the event of any incorrect, missing, or damaged parts.

If possible, please retain the carton and original packing materials in case there is a need to return the product. 2-1 INSTALLATION System Requirements You must meet the following minimum requirements: · · Broadband (Cable/xDSL) Internet service and Modem with Ethernet connection 2.4GHz 802.11n draft wireless adapter or 2.4GHz 802.11b/g wireless adapter installed on each PC. Alternatively an Ethernet adapter can be used. An up to date web browser: Internet Explorer 5.5 or above, Netscape 4.7 or above, Mozilla Firefox 1.

0 or above. · Hardware Description The Barricade connects to a cable or xDSL modem with Ethernet connection using its RJ-45 WAN port. It can be connected directly to your PC or to a local area network using the Fast Ethernet LAN ports. Data passing between devices connected to your local area network can run at up to 100 Mbps over the Fast Ethernet port and up to 300 Mbps over the built-in wireless access point. The Barricade includes an LED display on the top panel for system power and port indications that simplifies installation and network troubleshooting. 2-2 HARDWARE DESCRIPTION The following figures show the top and rear panels of the Barricade. Figure 2-1. Top Panel 9V 1A Figure 2-2. Rear Panel 2-3 INSTALLATION The power and port LED indicators on the top panel are illustrated by the following table. LED Power Status On Off WAN On Off Online On Flashing Off WLAN On Flashing Off LAN 1~4 On Flashing Off WPS (Wi-Fi Protected Setup) On Off Description The Barricade is receiving power.

Normal operation. Power off or failure. WAN link. No WAN link. Internet connection is functioning correctly.

The Barricade is establishing an Internet link. No Internet link. WLAN link. The Barricade is sending or receiving data via WLAN. No WLAN link. Ethernet link. The LAN port is sending or receiving data. No Ethernet link. WPS link is successfully established. · This LED will be on for 300 seconds after WPS connection is successfully established, then go off. · The WPS is disabled. Slow Flashing Quick Flashing WPS association is establishing between the Barricade and clients. WPS access failed. 2-4 ISP SETTINGS The Barricade contains the following ports and buttons: Item LAN Ports Description Fast Ethernet ports (RJ-45). Connect devices on your local area network to these ports (i.

e., a PC, hub, switch or IP set top box). WAN port (RJ-45). Connect your cable/xDSL modem line to this port. Use this button to reset the power and restore the default factory settings. To reset without losing configuration settings, see "Reset" on page 4-66. Connect the included power adapter to this inlet.

Warning: Using the wrong type of power adapter may cause damage. WPS Button (on top panel) Press this button for over 4 seconds to start using the WPS.

WAN Port Reset Button Power Inlet ISP Settings If you are not sure of your connection method, please contact your Internet Service Provider.

There are several connection types to choose from: Static IP, DHCP, PPPoE, PPTP and L2TP. Note: If using the PPPoE option, you will need to remove or disable any PPPoE client software on your computers. 2-5 INSTALLATION Connect the System The Barricade can be positioned at any convenient location in your office or home. No special wiring or cooling requirements are needed. You should, however, comply with the following guidelines: · · Keep the Barricade away from any heating devices.



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Do not place the Barricade in a dusty or wet environment. You should also remember to turn off the power, remove the power cord from the outlet, and keep your hands dry when you install the Barricade. Connect the Cable/xDSL Modem Connect the cable/xDSL modem using a CAT-5 Ethernet cable (RJ-45) to the Barricade's WAN port. When inserting the RJ-45 plug, be sure the tab on the plug clicks into position to ensure it is properly seated. Connecting the Barricade to your LAN The four LAN ports on the Barricade auto-negotiate the connection speed to 10 Mbps Ethernet or 100 Mbps Fast Ethernet, as well as the transmission mode to half duplex or full duplex.

Use RJ-45 cables to connect any of the four LAN ports on the Barricade to an Ethernet adapter on your PC. Otherwise, cascade any of the LAN ports on the Barricade to an Ethernet hub or switch, and then connect your PC or other network equipment to the hub or switch. When inserting an RJ-45 connector, be sure the tab on the connector clicks into position to ensure that it is properly seated. Notes: 1. Use 100-ohm shielded or unshielded twisted-pair cable with RJ-45 connectors for all Ethernet ports. Use Category 3, 4, or 5 for connections that operate at 10 Mbps, and Category 5 for connections that operate at 100 Mbps. 2. Make sure each twisted-pair cable length does not exceed 100 meters (328 feet). 2-6 CONNECT THE SYSTEM Connect the Power Adapter Plug the power adapter into the power socket on the back panel of the Barricade, and the other end into a power outlet. Check the power indicator on the front panel is lit.

If the power indicator is not lit, refer to "Troubleshooting" on page A-1. In case of a power input failure, the Barricade will automatically restart and begin to operate once the input power is restored. 2-7 INSTALLATION 2-8 CHAPTER 3 CONFIGURING THE CLIENT PC After completing hardware setup by connecting all your network devices, you need to configure your computer to connect to the Barricade. You can either configure your computer to automatically obtain IP settings (DHCP) or manually configure IP address settings (Static IP). Depending on your operating system see: "Windows 2000" on page 3-3, "Windows XP" on page 3-9, or "Configuring Your Macintosh Computer" on page 3-15. 3-1 TCP/IP CONFIGURATION TCP/IP Configuration To access the Internet through the Barricade, you must configure the network settings of the computers on your LAN to use the same IP subnet as the Barricade.

The default network settings for the Barricade are: IP Address: 192.168.2.1 Subnet Mask: 255.

255.255.0 Note: These settings can be changed to fit your network requirements, but you must first configure at least one computer to access the Barricade's web configuration interface in order to make the required changes. (See "Configuring the Barricade" on page 4-1 for instructions on configuring the Barricade.) 3-2 CONFIGURING THE CLIENT PC Windows 2000 DHCP IP Configuration 1.

On the Windows desktop, click Start/Settings/ Network and Dial-Up Connections. 2. Click the icon that corresponds to the connection to your Barricade. 3. The connection status screen will open.

Click Properties. 3-3 TCP/IP CONFIGURATION 4. Double-click Internet Protocol (TCP/IP). 5. If Obtain an IP address automatically and Obtain DNS server address automatically are already selected, your computer is already configured for DHCP. If not, select these options now and click OK. 3-4

CONFIGURING THE CLIENT PC Obtain IP Settings From Your Barricade Now that you have configured your computer to connect to your Barricade, it needs to obtain new network settings. By releasing old DHCP IP settings and renewing them with settings from your Barricade, you can verify that you have configured your computer correctly. 1. On the Windows desktop, click Start/Programs/ Accessories/Command Prompt.

2. In the Command Prompt window, type ipconfig /release and press the Enter key. 3-5 TCP/IP CONFIGURATION 3. Type ipconfig /renew and press the Enter key. @@These values confirm that your Barricade is functioning correctly. 4. Type exit and press the Enter key to close the Command Prompt window.

3-6 CONFIGURING THE CLIENT PC Manual IP Configuration 1. Follow steps 1-4 in "DHCP IP Configuration" on page 3-3. 2.

Select Use the following IP address. Enter an IP address based on the default network 192.168.2.x (where x is between 2 and 254), and use 255.255.255.0 for the subnet mask. Use 192.168.

2.1 for the Default gateway field. 3. Select Use the following DNS server addresses. 4. Enter the IP address for the Barricade in the Preferred DNS server field. This automatically relays DNS requests to the DNS server(s) provided by your ISP. Otherwise, add a specific DNS server into the Alternate DNS Server field and click OK to close the dialog boxes. 5. Record the configured information in the following table.

TCP/IP Configuration Setting	IP Address	Subnet Mask	Preferred DNS Server	Alternate DNS Server	Default Gateway
	_____	_____	_____	_____	_____

\_\_\_ 3-7 TCP/IP CONFIGURATION Disable HTTP Proxy You need to verify that the "HTTP Proxy" feature of your web browser is disabled. @@1. To disable the proxy in Internet Explorer, click Tools. Click Internet Options..

and then the Connections tab, shown on the right. @@@@3. Click OK. 3-8 CONFIGURING THE CLIENT PC Windows XP DHCP IP Configuration 1. On the Windows desktop, click Start/Control Panel. 2. In the Control Panel window, click Network and Internet Connections. 3. The Network Connections window will open.

Locate and double-click the Local Area Connection icon for the Ethernet adapter that is connected to the Barricade. 4. In the connection status screen, click Properties. 3-9 TCP/IP CONFIGURATION 5. Double-click Internet Protocol (TCP/IP). 6. If Obtain an IP address automatically and Obtain DNS server address automatically are already selected, your computer is already configured for DHCP. If not, select these options now and click OK. 3-10 CONFIGURING THE CLIENT PC Obtain IP Settings From Your Barricade Now that you have configured your computer to connect to your Barricade, it needs to obtain new network settings. By releasing old DHCP IP settings and renewing them with settings from your Barricade, you can verify that you have configured your computer correctly.

1. On the Windows desktop, click Start/Programs/Accessories/ Command Prompt. 2. In the Command Prompt window, type ipconfig /release and press the Enter key. 3-11 TCP/IP CONFIGURATION 3.

Type ipconfig /renew and press the Enter key. @@These values confirm that your Barricade is functioning correctly. 4. Type exit and press the Enter key to close the Command Prompt window. Your computer is now configured to connect to the Barricade.

3-12 CONFIGURING THE CLIENT PC Manual IP Configuration 1. Follow steps 1-5 in "DHCP IP Configuration" on page 3-9.



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2. Select Use the following IP Address. 3. Enter an IP address based on the default network 192.168.2.x (where x is between 2 and 254), and use 255.255.255.0 for the subnet mask. Use 192.168.2.1 for the Default gateway field. 4. Select Use the following DNS server addresses. 5. Enter the IP address for the Barricade in the Preferred DNS server field.

This automatically relays DNS requests to the DNS server(s) provided by your ISP. Otherwise, add a specific DNS server into the Alternate DNS Server field and click OK to close the dialog boxes. 6. Record the configured information in the following table. TCP/IP Configuration Setting IP Address Subnet Mask Preferred DNS Server Alternate DNS Server Default Gateway \_\_\_\_\_

\_\_\_\_\_ 3-13 TCP/IP CONFIGURATION Disable HTTP Proxy You need to verify that the "HTTP Proxy" feature of your web browser is disabled.

@@@1. To disable the proxy in Internet Explorer, click Tools. Click Internet Options... and then the Connections tab, shown on the right. @@@@3. @@@@Follow these instructions: 1. Pull down the Apple Menu System Preferences. . Click 2. @@@@If not, select this option. 4. Your new settings are shown in the TCP/IP tab. @@These values confirm that your Barricade is functioning. 5. Close the Network window. @@@@The following steps are for Internet Explorer. Internet Explorer 1. Open Internet Explorer and click the Stop button. Click Explorer/Preferences. 2. @@@@Enter the default password: smcadmin, and click LOGIN. @@@@Select your local time zone from the drop-down menu. This information is used for log entries and client filtering. If you want to automatically synchronize the Barricade with a public time server, check the box to Enable Automatic Time Server Maintenance. Select the desired servers from the drop-down menus. Click NEXT to continue. 4-3 CONFIGURING THE BARRICADE Wireless Settings This screen allows you to configure the SSID, wireless Mode and channel. Optionally you can disable broadcasting of SSID for added security.

SSID is the name given to your wireless LAN. Wireless clients within the same network should be configured to use the same SSID. Parameter Description Wireless Channel The radio channel used by the wireless router and its clients to communicate with each other. This channel must be the same on the Barricade and all of its wireless clients. The Barricade will automatically assign itself a radio channel, or you may select one manually. Extension Channel SSID Wireless Mode Setting the Bandwidth Mode as 20/40MHz allows you to use this extension channel as the secondary channel for doubling the bandwidth of your wireless network. Service Set ID. The SSID must be the same on the Barricade and all of its wireless clients. (Default: SMC) This device supports 11n, 11g and 11b wireless networks. Make your selection depending on the type of wireless network that you have.

SMC recommend using "Mixed 802.11n, 802.11g and 802.11b" to provide compatibility with 11n, 11g and 11b wireless clients. 4-4 SETUP WIZARD Parameter Bandwidth Description · 20MHz: Sets the operation bandwidth as 20 MHz. · 20/40MHz: Allows automatic detection of the operation bandwidth between 20 MHz and 40 MHz. Choosing the bandwidth mode as 20/40MHz allows you to use the extension channel. Broadcast SSID Enable or disable the broadcasting of the SSID. Disabling SSID broadcast will provide increased security by hiding the SSID of your wireless network. Enabling this function to ensure the best performance of your 11n throughput in case there is a lot of interference from the 11g and 11b devices in the wireless network.

Enable or disable the use of QoS. The QoS (Quality of Service) function allows you to differentiate WMM (Wi-Fi Multimedia) traffic and provide it with high-priority forwarding service Protected Mode 802.11e/WMM QoS Click NEXT to continue. 4-5 CONFIGURING THE BARRICADE Connection Type Setting Specify the WAN connection type required by your Internet Service Provider. Specify Dynamic IP Address, PPPoE, PPTP, L2TP or Static IP Address. Select your connection type to proceed. Click BACK to go back and change your settings. 4-6 SETUP WIZARD Dynamic IP Address If the ISP requires you to input a Host Name, type it in the Host Name field. Click on the Clone the MAC Address and the MAC Address of the current PC will be filled automatically. Click NEXT to proceed, or BACK to change your settings.

4-7 CONFIGURING THE BARRICADE PPPoE Enter the User Name and Password required by your ISP in the appropriate fields. If your ISP has provided you with a Service Name enter it in the Service Name field, otherwise, leave it blank. Leave the Maximum Transmission Unit (MTU) at the default value (1454) unless you have a particular reason to change it. Enter the maximum idle time for the Internet connection. After this time has been exceeded the connection will be terminated. Check the Auto-reconnect check box to automatically re-establish the connection as soon as you attempt to access the Internet again. Click NEXT to proceed, or BACK to change your settings. Note: Clicking NEXT will not automatically connect the Barricade to the Internet. The Barricade will only connect when you explicitly request it to, for example, by launching your web browser. 4-8 SETUP WIZARD PPTP (Point-to-Point Tunneling Protocol) The Barricade supports PPTP connection.

The PPTP connection delivers userlevel authentication VPN (virtual private network) for secure network path. Enter the user account ID and password required by your ISP in the appropriate fields. If your ISP has provided you with a Host Name enter it in the Host Name field, otherwise, leave it blank. If your ISP uses DHCP service, enable the Get IP by DHCP. Then enter the Service IP Address provided by your ISP.

Click on the Disconnect after x minutes of no activity and then enter the idle time for the Internet connection. This is the period of time for which the connection to the Internet is maintained during inactivity. If your ISP charges you by the minute, you should change the idle time out to one minute. Most ISPs provide a DNS server for speed and convenience. Since your Service Provider may connect to the Internet with dynamic IP settings, it is likely that the DNS server IP's are also provided dynamically.

Clicking on the Click here to enter your DNS Settings for DNS configuration. See "DNS" on page 4-22. Click NEXT to proceed, or BACK to change your settings. 4-9 CONFIGURING THE BARRICADE L2TP (Layer 2 Tunneling Protocol) The Barricade supports L2TP connection. The L2TP connection delivers computer-level authentication VPN (virtual private network) for secure network path. Enter the user account ID and password required by your ISP in the appropriate fields. If your ISP uses DHCP service, enable the Get IP by DHCP. Then enter the L2TP Server Address provided by your ISP. Click on the Disconnect after x minutes of no activity and then enter the idle time for the Internet connection.



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