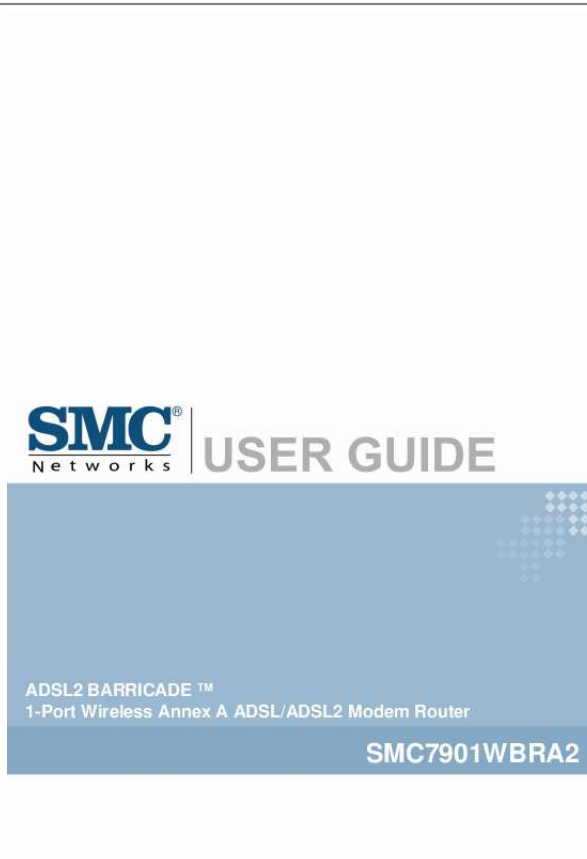




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You can read the recommendations in the user guide, the technical guide or the installation guide for SMC 7901WBRA2. You'll find the answers to all your questions on the SMC 7901WBRA2 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SMC 7901WBRA2
User guide SMC 7901WBRA2
Operating instructions SMC 7901WBRA2
Instructions for use SMC 7901WBRA2
Instruction manual SMC 7901WBRA2



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Manual abstract:

Trademarks: SMC is a registered trademark; and Barricade is a trademark of SMC Networks, Inc. Other product and company names are trademarks or registered trademarks of their respective holders. ii Warranty and Product Registration To register SMC products and to review the detailed warranty statement, please refer to the Support Section of the SMC Website at <http://www.smc.com> SMC Networks, Inc. 20 Mason Irvine, CA 92618 iii Compliances Federal Communication Commission Interference Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. 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 or more of the following measures: · Reorient or relocate the receiving antenna.

· Increase the distance 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: To assure continued compliance, (example - use only shielded interface cables when connecting to computer or peripheral devices) any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. FCC

Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter..

FCC - Part 68 This equipment complies with Part 68 of the FCC rules. This equipment comes with a label attached to it that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this information must be provided to the telephone company. This equipment uses the following jacks: RJ-11. The REN is used to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total RENs, contact the telephone company to determine the maximum REN for the calling area IMPORTANT NOTE: IEEE 802.11b or 802.

11g operation of this product in the U.S.A. is firmware-limited to channels 1 through 11. iv Industry Canada Statement Operation is subject to the following two conditions: 1. This device may not cause interference and 2. This device must accept any interference, including interference that may cause undesired operation of the device To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing. This device has been designed to operate with an antenna having maximum gain of 1.5dBi.

Any antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication. EC

Declaration of Conformity SMC contact for these products in Europe is: SMC Networks Spain, S.L.

Edificio Conata II, Group CTSG Fructuos Gelabert 6-8 2o2a 08970 Sant Joan Despí, Barcelona, Spain This product 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 55022:2006

Class B EN 61000-3-2: 2006 EN55024:1998 +A1:2001 +A2:2003 IEC61000-4-2: 1995 +A1 : 1998 +A2 : 2000 IEC61000-4-3: 2002 +A1 :2002

IEC61000-4-4: 2004 IEC61000-4-5: 1995 + A1 : 2000 IEC61000-4-6: 2003 + A1: 2004 IEC61000-4-8: 1993 + A1 : 2000 IEC61000-4-11: 2004

IEC60960-1:2001 EN 61000-3-3:1995 +A1: 2001+A2:2005 EN 60950-1:2001+A11:2004 NCC Statement v Countries of Operation & Conditions of Use in the European Community This device is intended to be operated in all countries of the European Community. Requirements for indoor vs. outdoor operation, license requirements and allowed channels of operation apply in some countries as described below.

Note: The user must use the configuration utility provided with this product to ensure the channels of operation are in conformance with the spectrum usage rules for European Community countries as described below. This device requires that the user or installer properly enter the current country of operation in the command line interface as described in the user guide, before operating this device. This device will automatically limit the allowable channels determined by the current country of operation. Incorrectly entering the country of operation may result in illegal operation and may cause harmful interference to other system. The user is obligated to ensure the device is operating according to the channel limitations, indoor/outdoor restrictions and license requirements for each European Community country as described in this document. This device may be operated indoors or outdoors in all countries of European Community using the 2.4GHz band: Channel 1-13. Declaration of Conformity in Languages of the European Community [Czech] Společnost SMC Networks tímto prohlašuje, že toto rádiové zařízení LAN je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.

Oficiální ES prohlášení o shodě je uvedeno v příslušné části k produktu na webu <http://www.smc.com>

com SMC Networks erklærer herved, at følgende Radio LAN-enhed overholder de væsentlige krav og andre relevante bestemmelser i direktiv 1999/5/EF.



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Den officielle EU-overensstemmelseserklæring er tilgængelig under det relevante produktsnit på følgende webadresse: <http://www.smc.com>. Hiermit erklart 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 EC-Declaration 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>.

[Danish] [German] [Estonian] vi [English] 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>.

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, 1999/5/E.

E., <http://www.smc.com>. 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>.

com. Ar so SMC Networks deklār, ka Radio LAN device atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītiem noteikumiem. Oficiālā EK atbilstības deklarācija ir atrodama attiecīgā produkta sadaļā tīmeklī <http://www.smc.com>. Siuo „SMC Networks” deklaruoja, kad šis radijo LAN renginys atitinka esminių reikalavimų ir kitas 1999/5/EB Direktyvos nuostatas. Oficiali jo EB atitikties deklaracij galima rasti atitinkam gamini skyriuje siame tinklalapyje: <http://www.smc.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-tagmir LAN tar-Radju huwa konformi mar-rekwiiti essenzjali u dispoizzjonijiet rilevanti ora ta' Direttiva 1999/5/KE. vii [Spanish] [Greek] [French] [Italian] [Latvian] [Lithuanian] [Dutch] [Maltese] Id-Dikjarazzjoni ta' Konformità uffijjali tal-KE tinsab fit-taqsim korrispondenti fis-sit ta' l-Internet <http://www.smc.com>.

smc.com. [Hungarian] Az SMC Networks kijelenti, hogy a Radio LAN eszköz megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak. A hivatalos EC megfelelési nyilatkozat megtalálható a vonatkozó termék ismertetésénél, a következő címen: <http://www.smc.com>.

com Firma SMC Networks niniejszym owiadcza, e urządzenie Radio LAN jest zgodne z zasadniczymi wymaganiami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC. Oficjalna Deklaracja zgodności UE znajduje się w odpowiedniej sekcji produktu w witrynie <http://www.smc.com>. A SMC Networks declara que este dispositivo de LAN de Rádio está em conformidade com os requisitos essenciais e com outras provisões relevantes da Directiva 1999/5/CE. A Declaração de Conformidade CE oficial encontra-se na secção correspondente do produto na Web, <http://www.smc.com>. Družba SMC Network izjavlja, da je naprava Radio LAN skladna z bistvenimi zahtevami in drugimi ustreznimi predpisi direktive 1999/5/ES. Za uradno izjavo o skladnosti ES glejte razdelek za ustrezni izdelek na spletni strani <http://www.smc.com>.

smc.com. Spoločnosť SMC Networks týmto vyhlasuje, že toto zariadenie Radio LAN spĺňa základné požiadavky a ďalšie príslušné ustanovenia smernice 1999/5/ES. Oficiálne prehlásenie ES o zhode je uvedené v sekcii príslušného produktu v lokalite <http://www.smc.com>. SMC Networks vakuuttaa täten, että Radio LAN device -tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien, Dinamarca, Finlandia, Francia, Alemania, Italia, Luxemburgo, Países Bajos, Noruega, España, Suecia, Suiza, Reino Unido, ix [French] [Dutch] [Spanish] 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. [German] 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 Richtlinie 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 zařízení je přijímač a vysílač pro bezdrátové síť LAN v pásmu 2,4 GHz, určený pro použití v interiéru domácností a kanceláří ve všech členských zemích ES a ESVO, kterým byl oznámen záměr uvést zařízení na trh. V souladu s čl. 6 odst. 4 smrnice 1999/5/ES o rádiových zařízeních a telekomunikačních koncových zařízeních byly uvodnomy tyto členské zem ES nebo ESVO: Belgie, Dánsko, Finsko, Francie, Irsko, Island, Itálie, Lucembursko, Německo, Nizozemsko, Norsko, Portugalsko, Rakousko, ecko, Spojené království, Španlsko, Švédsko, Švýcarsko.



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Na použití ve venkovním prostředí se v některých zemích vztahují určité požadavky, nap. požadavky na licenci nebo provoz v povolených kanálech. O omezení venkovního použití se informujte u místních regulátor nebo u společnosti SMC Networks. Enheden er en 2,4 GHz trådløs LAN-transceiver, beregnet til indendørs hjemme- og kontorbrug i alle notificerede EU- og EFTA-medlemslande. I henhold til afsnit 6.4 i R&TTE-direktivet 1999/5/EF er følgende EU-/EFTA-medlemslande 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, Rootsi, x [Czech] [Danish] [Estonian] 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. [Greek] 2,4 GHz, - - 6.4 (R&TTE), 1999/5, - /: , , , , , , , , , , , , . SMC Networks .
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.
S ierce ir 2,4 GHz beavadu LAN raidzvtvrs, kas paredzts izmantosanai iekstels mjs un birojos viss paziotajs EK un EBTA (European Free Trade Association - Eiropas brvs tirzniechas asociacija) dalbvalsts. Atbilstosi radioiekrtu un telekomunikciju gala iekrtu direktvas 1999/5/EK 6.4. pantam paziots EK/EBTA valstis ir : Austrija, Beija, Dnija, Somija, Francija, Vcija, Itlija, Luksemburga, Nderlande, Norvija, Spnija, Zviedrija, Sveice, Apvienot Karaliste, Portugle, Grietija, rija, Islande. Dazs valsts ir spk ierobezojumi lietosanai rvid, piemram, licences prasbas un darbbai atautie kanli.
Ldzu, sazinieties ar vietjo reguljoso instanci vai SMC Network, lai saemtu informciju par pasreizjiem ierobezojumiem lietosanai rvid. Sis renginys yra 2,4 GHz belaidis LAN sistuvas-intuvas, skirtas naudoti patalpose namie ar biure visose notifikuotose EB ir ELPA salyse narse. Pagal RTTE Direktyvos 1999/5/EB 6.4 straipsn, notifikuotos yra sios EB/ELPA salys nars: Austrija, Belgija, Danija, Suomija, Pranczija, Vokietija, Italija, xi [Italian] [Latvian] [Lithuanian] Liuksemburgas, Nyderlandai, Norvegiija, Ispanija, Svedija, Svecariija, Jungtin Karalyst, Portugalija, Graikija, Airija, Islandija. Kai kuriose salyse galioja tam tikri reikalavimai norint naudoti rengin lauke, pvz., licencijos ir suteikti rysio kanalai. Jei norite suzinoti, kokie apribojimai galioja norint naudoti rengin lauke, kreipkitis nacionalin reguliavimo institucij arba „SMC Networks“. [Maltese] Dan it-tagmir huwa LAN transreiever mingajr fili ta' 2.4 GHz masub biex jintua fuq ewwa fi djar u uffini fil-pajjii notifikati tal-KE u l-Istati Membri ta' l-EFTA. B'mod konformi ma' Artikolu 6.*

*4 tad-Direttiva R&TTE 1999/5/KE l-Istati Membri tal-KE/EFTA li ejjin ew notifikati: L-Awstrija, Il-Belju, Id-Danimarka, Il-Finlandja, Franza, Il-ermanja, L-Italja, Il-Lussemburgu, L-Olanda, In-Norveja, Spanja, L-Iveja, L-Ivizzera, Ir-Renju Unit, Il-Portugal, Il-Greja, L-Irlanda, L-Islanda. Rekwiiti gal taddim fuq barra, bal tiijiet ta' lienzja u kanali permessi gal taddim japplikaw fertu pajjii. Jekk jogbok ikkuntattja lill-awtorita' regularorja lokali jew SMC Networks gal dettalji dwar restrizzjonijiet attwali dwar l-uu fuq barra. Ez az eszköz egy 2,4 GHz-es vezeték nélküli LAN adó-vev, amely beltéri és irodai használatra készült, és az összes értesített EC- és EFTA-tagországban használható. Az 1999/5/EC jel R&TTE elírás 6.4-es cikkének megfelelén a következ 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 licence és az engedélyezett csatornákra. A kültéri használatra vonatkozó aktuális elírásokkal kapcsolatos részletekért forduljon a helyi szabályozó hatósághoz vagy az SMC Networks-höz. Niniejsze urzdzenie to urzdzenie do odbierania i przesyłania sygnału (transceiver) w bezprzewodowej sieci LAN o czstotliwoci 2,4 GHz, przeznaczone do uytku wewntrz pomieszcze, w domach i biurach we wszystkich krajach czlonkowskich UE i EFTA. Zgodnie z artykulem 6.
4 dyrektywy 1999/5/EC dotyczej norm dla urzdze radiowych i kocowych urzdze teletransmisyjnych powiadomione zostaly nastpujce kraje czlonkowskie: Austria, Belgia, Dania, Finlandia, Francja, Niemcy, Wlochy, Luksemburg, Holandia, Hiszpania, Szwecja, Szwajcaria, Wielka Brytania, Portugalia, Grecja, Irlandia, Islandia.*



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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 urzędem 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 xii [Hungarian] [Polish] [Portuguese] 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. [Slovenian] Ta naprava je oddajno-sprejemna enota za brezžično lokalno omrežje, namenjena uporabi na domu ali v pisarni v vseh prijavljenih državah članicah ES in EFTA. Skladno s členom 6.

4 Direktive 1999/5/ES o radijski opremi in telekomunikacijski terminalski opremi so bile obvescene naslednje države članice ES/EFTA: Avstrija, Belgija, Danska, Finska, Francija, Nemčija, Italija, Luksemburg, Nizozemska, Norveška, Španija, Švedska, Švica, Velika Britanija, Portugalska, Grčija, Irska, Islandija. V nekaterih državah veljajo zahteve za delovanje na prostem, kot so zahteve za dovoljenje in dovoljeni kanali za delovanje. Če potrebujete natančne informacije o trenutnih omejitvah uporabe na prostem, se obrnite na lokalni regulativni organ ali družbo SMC Networks. Toto zariadenie je prijímac 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, Švajciarsko, Švédsko, Taliansko, Veľká Británia. V niektorých štátoch sa na prevádzku v exteriéroch vzahujú 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. Laite on 2,4 GHz:n langaton LAN-vastaanotin, joka on tarkoitettu kotija toimistokäyttöön kaikissa EY:n ja EFTAn jäsenmaissa, joihin siitä on ilmoitettu.

Radio- ja telepäätelaitedirektiivin 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 xiii [Slovak] [Finnish] [Swedish] 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.

Kontaktia lokala tillsynsmyndigheter eller SMC Networks för information om aktuella bestämmelser för utomhusbruk. [Icelandic] 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. Kröfur fyrir notkun utanhúss, svo sem kröfur um leyfi og heimilaðar rásir eiga við í sumum löndum. Hafid 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. [Norwegian] xiv 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 followings: Operating Voltage Cord Set Specifications UL Listed/CSA certified Cord Set Minimum 18AWG 120Volts Type SVT or SJT three conductor cord Maximum length of 15 feet Parallel blade, grounding type attachment plug rated 15A, 125V Cord Set with H05VV-F cord having three conductors with minimum diameter of 0.



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<http://yourpdfguides.com/dref/3456736>

75mm2 IEC-320 receptacle Male plug rated 10A,250V The unit automatically matches the connected voltage. Therefore, no additional adjustments are necessary when connecting it to any input voltage within the range marked on the power adapter. 240Volts(Europe only) xv Contents I Introduction

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64 ii 1 Introduction The SMC7901WBRA1 supports multiple line modes. It provides one 10/100 base-T Ethernet interfaces at the user end. The device provides high-speed ADSL broadband connection to the Internet or Intranet for high-end users, such as net bars and office users. The device provides high performance access to the Internet, downlink up to 24 Mbps and uplink up to 1 Mbps. The device supports WLAN access, as WLAN AP or WLAN router, to the Internet.

It complies with IEEE 802.11, 802.11b/g specifications, and WEP, WPA and WPA2 security specifications. 1.1 Packing List 1 x SMC7901WBRA1 1 x external splitter 1 x power adapter 2 x telephone cables (RJ-11) 1 x Ethernet cable (RJ-45) 1 x Quick Installation Guide (QIG) 1 x driver and utility software CD 1. 2 Safety Cautions Follow the following instructions to protect the device from risks and damage caused by fire or electric power: Use volume labels to mark the type of power. Use the power adapter that is packed within the device package. Pay attention to the power load of the outlet or prolonged lines. An overburden power outlet or damaged lines and plugs may cause electric shock or fire accident. Check the power cords regularly. If you find any damage, replace it at once. Proper space left for heat dissipation is necessary to avoid any damage caused by overheating to the device. The long and thin holes on the device are designed for heat dissipation to make sure the device works normally. Do not cover these heat radiant holes. Do not put this device close to a place where a heat source exists or high temperature occurs.

Avoid the device from direct sunshine. Do not put this device close to a place where is over damp or watery. Do not spill any fluid on this device. Do not connect this device to any PC or electronic product, unless our customer engineer or your broadband provider instructs you to do this, because any wrong connection may cause any power or fire risk. Do not place this device on an unstable surface or support. 1.3 LED and Interface 1 Front panel The following table describes the LEDs of the device. LED On Power Off On Blinks On Link Blinks Off On Data Blinks Off On Ethernet Blinks Off On WLAN Blinks Off Green Green Green Blue Status Color Green Description The device is powered on and the initialization is normal. The device is powered off. The device is initializing.

The firmware is upgrading. Initial self-test of the unit is normal and ready. The device is detecting itself. Initial self-test of the unit is failed. The Internet connection is normal.

Data is being transmitted on the Internet. The Internet connection is failed. The Ethernet connection is normal and active. Data is being transmitted through the Ethernet interface. The Ethernet connection is failed.

The WLAN connection is established. Data is being transmitted through the WLAN interface. The WLAN connection is failed. Red Rear panel The following table describes the interfaces of the device. Interface Function Power switch, power on or power off the device. Power Ethernet Power interface, for connecting to the power adapter of 12 V DC, 1 A. RJ-45 interface, for connecting to the Ethernet interface of the PC or the Ethernet devices with the cable. 2 Interface Reset Function Resets to the factory defaults. To restore factory defaults, keep the device powered on and push a paper clip into the hole. Press down the button over 5 seconds, then release.

RJ-11 interface, for connecting to the ADSL interface or a splitter through the telephone cable. The button of the antenna. Line 1.4 System Requirements Recommended system requirements are as follows: A 10/100 base-T Ethernet card is installed on your PC A hub or Switch. (attached to several PCs through one of Ethernet interfaces on the device) Operating system: Windows 98SE, Windows 2000, Windows ME, Windows XP or Windows Vista Internet Explorer V5.0 or higher, Netscape V4.0 or higher, or Firefox 1.5 or higher 1.5 Features The device supports the following features: Various line modes External PPPoE dial-up access Internal PPPoE and PPPoA dial-up access Leased line mode Zero installation PPP bridge mode (ZIPB) 1483B, 1483R, and MER access Multiple PVCs (eight at most) and these PVCs can be isolated from each other A single PVC with multiple sessions Multiple PVCs with multiple sessions Binding of ports with PVCs 802.1Q and 802.

IP protocol DHCP server NAT and NAPT Static route Firmware upgrade: Web, TFTP, and FTP Reset to factory default DNS relay Virtual server DMZ Two-level passwords and user names and six accounts (at most) 3 Web interface Telnet CLI System status display PPP session PAP and CHAP IP filter IP QoS Remote access control Line connection status test Remote management (telnet and HTTP) backup and restore of configuration file Ethernet interface supports crossover detection, auto-correction and polarity correction UPnP 4 2 Hardware Installation Step 1 Connect the Line interface of the device and the Modem interface of the splitter through a telephone cable. Connect the phone to the Phone interface of the splitter through a cable. Connect the incoming line to the Line interface of the splitter. The splitter has three interfaces: Line: Connect to a wall phone jack (RJ-11 jack) Modem: Connect to the ADSL jack of the device Phone: Connect to a telephone set. Step 2 Connect the Ethernet interface of the device to the network card of the PC through an Ethernet cable (MDI/MDIX).

Note: Use twisted-pair cables to connect with the hub or switch. Step 3 Plug one end of the power adapter to the wall outlet and connect the other end to the PWR interface of the device.



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Connection 1 Figure 1 displays the application diagram for the connection of the router, PC, splitter and the telephone sets, when no telephone set is placed before the splitter. Figure 1 Connection Diagram (without connecting telephone sets before the splitter) Connection 2 Figure 2 displays the application diagram for the connection of the router, PC, splitter and the telephone sets, when a telephone set is placed before the splitter. 5 Figure 2 (with a telephone set before the splitter) In the actual application, connection 1 is recommended.

1 Note: When connection 2 is used, the filter must be installed close to the telephone lines. Do not use the splitter instead of the filter. Installing a telephone directly before the splitter may lead to a failure of connection between the device and the office central, or cannot access into the Internet, or slow the connection speed. If you really need to add a telephone set before the splitter, you have to add a microfilter before connecting to a telephone set. Do not connect several telephones before the splitter. Do not connect several telephones with the microfilter. 6 3 About the Web Configuration This chapter describes how to configure the router by using the Web-based configuration utility. 3.1 How to Access the Router The following is the detailed description of accessing the router for the first time. Step 1 Open the Internet Explorer (IE) browser and enter [http://192.](http://192.168.2.1)

168.2.1. Step 2 In the LOGIN page that is displayed, enter the username and password. The username and password of the super user are admin and smcadmin. The username and password of the common user are user and user. If you log in as the super user, the page shown in the following figure appears. You can check, configure and modify all the settings. 7 If you log in as a common user, you can check the status of the router, but can not configure the most of the settings. 3.

2 Setup Wizard In the navigation bar, choose Setup Wizard. In the Setup Wizard page, you can configure the VPI/VCI number. The Setup Wizard page guides fast and accurate configuration of the Internet connection and other important parameters. The following sections describe these various configuration parameters. Whether you configure these parameters or use the default ones, click NEXT to enable your Internet connection.

When subscribing to a broadband service, you should be aware of the method by which you are connected to the Internet. Your physical WAN device can be either PPP, ADSL, or both. The technical information about the properties of your Internet connection is provided by your Internet Service Provider (ISP). For example, your ISP should inform you whether you are connected to the Internet using a static or dynamic IP address, and the protocol that you use to communicate on the Internet. Click NEXT, the page shown in the following page appears.

In this page, you can you can set the system time manually or get the system time from the time server. Click NEXT, the page shown in the following page appears. In this page, you can configure the wireless SSID, wireless mode and channel number. 8 The following table describes the parameters of this page. Field Description The service set identification (SSID) is a unique name to identify the router (Root) SSID in the wireless LAN. Wireless stations associating to the router must have the same SSID. Enter a descriptive name. SSID Broadcast Wireless Mode You can enable or disable SSID broadcast. You can choose 2.4 GHz (B), 2.

4 GHz (G), or 2.4 GHz (B + G). A channel is the radio frequency used by 802.11b/g wireless device. Channels available depend on your geographical area. You may have a Channel Number choice of channels (for your region) and you should use a different channel from an adjacent AP to reduce the interference. Interference and degrading performance occurs when radio signal from different APs overlap. Select a channel from the drop-down list box. After configuring the wireless settings, click NEXT. The page shown in the following figure appears.

In this page, you can configure the ADSL settings. 9 The following table describes the parameters and buttons in this page. Field Country Internet Service Provider Protocol Connection Type VPI VCI Description Select the country in which you are in. Select your ISP. Select the protocol.

You can choose PPPoE, PPPoA, 1483 MER: DHCP, 1483 MER: Static IP, 1483 Bridged, or 1483 Routed. Select the connection type provided by your ISP from the drop-down list box. You can choose LLC or VC-Mux. The virtual path between two points in an ATM network, and its valid value is from 0 to 255.

The virtual channel between two points in an ATM network, ranging from 32 to 65535 (0 to 31 is reserved for local management of ATM traffic). Before you configure the protocol, you must select the country in which you are in and your ISP. PPPoE If the uplink equipment supports the PPPoE protocol, you can set the device to initiate the PPPoE dialup. After finishing the settings, click NEXT. The page shown in the following figure appears. 10 If you ensure the configuration is correct, click FINISH. Then the configuration takes effect. You can check the configuration in the WAN page. PPPoA If the uplink equipment supports the PPPoA encapsulation, you can set the device to initiate the PPPoA dialup. 11 After finishing the settings, click NEXT. The page shown in the following figure appears.

If you ensure the configuration is correct, click FINISH. Then the configuration takes effect. You can check the configuration in the WAN page. 1483 MER: DHCP 12 If the uplink equipment supports the 1483 MER: DHCP protocol, you can set the device to initiate the dynamic IP dialup. After finishing the settings, click NEXT. The page shown in the following figure appears. If you ensure the configuration is correct, click FINISH. Then the configuration takes effect. You can check the configuration in the WAN page. 1483 MER: Static IP If the uplink equipment supports the 1483 MER: Static IP protocol, you can set the device to initiate the static IP dialup.

13 After finishing the settings, click NEXT. The page shown in the following figure appears. If you ensure the configuration is correct, click FINISH. Then the configuration takes effect. You can check the configuration in the WAN page.

14 1483 Bridged If the uplink equipment supports the 1483 Bridged protocol, you can set the device to initiate the bridge dialup. After finishing the settings, click NEXT. The page shown in the following figure appears. If you ensure the configuration is correct, click FINISH. Then the configuration takes effect.

You can check the configuration in the WAN page. 15 1483 Routed If the uplink equipment supports the 1483 Routed protocol, you can set the device to initiate the 1483 route dialup. After finishing the settings, click NEXT. The page shown in the following figure appears. If you ensure the configuration is correct, click FINISH.



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Then the configuration takes effect. You can check the configuration in the WAN page. 16 I Note: After you select the country in which you are in and the correct ISP, the ADSL settings, such as protocol, connection type, VPI, and VCI appears. It is recommended to use the default values. 3.

3 Status In the navigation bar, choose Status. In the Status page that is displayed contains: System, LAN, WLAN, WAN, Port Mapping, Statistic, and ARP Table. 3.3.1 System Choose Status > System. The page that is displayed shows the current status and some basic settings of the router, such as software version, DSL mode, upstream speed, downstream speed, and uptime. 3.3.2 LAN Choose Status > LAN. The page that is displayed shows some basic LAN settings of the router.

In the LAN page, you can view the LAN IP address, DHCP server status, MAC address, and DHCP client table. If you want to configure the LAN network, refer to Chapter 3.4.1 LAN Settings. 17 3.

3.3 WLAN Choose Status > WLAN. The page that is displayed shows some basic wireless LAN settings of the router. 3.3.

4 WAN Choose Status > WAN. In the WAN page, you can view basic status of WAN, default gateway, DNS server. If you want to configure the WAN network, refer to the chapter 3.6.1 WAN Interface. 18 3.3.5 Port Mapping Choose Status > Port Mapping. In the Port Mapping page, you can view the mapping relation and the status of port mapping. 3.

3.6 Statistic Choose Status > Statistic. The Statistic page that is displayed contains Traffic Statistic and DSL Statistic. 3.3.6.1 Traffic Statistic Click Traffic Statistic in the left pane. The page shown in the following figure appears. In this page, you can view the statistics of each network port. 19 3.

3.6.2 DSL Statistic Click DSL Statistic in the left pane. The page shown in the following figure appears. In this page, you can view the ADSL line statistics, downstream rate, upstream rate, and other information.

3.3.7 ARP Table Choose Status > ARP Table. In the ARP Table page, you can view the table which shows a list of learned MAC addresses. 3.

4 LAN 20 In the navigation bar, choose LAN. The LAN page that is displayed contains LAN Settings and DHCP Settings. In this page, you can use the LAN configuration to define an IP address for the router and configure the DHCP server. 3.4.1 LAN Settings Choose LAN > LAN Settings. In the LAN Settings page, you can configure the LAN network. In this page, you can change IP address of the router. The default IP address is 192.168.

2.1. This is the private IP address of the router. This is the address under which the router can be reached in the local network. @@@@This address block is 192.168.2.1192.168.2.

254. @@The range of subnet mask is from 255.255.0.0-255.

255.255.254. Select it to enable the secondary LAN IP. The two LAN IP address must be in the different network.

@@@@You can configure this router as a DHCP server or disable it. @@@@You can enable or disable DHCP proxy. Select Disable in the DHCP Server Setup page. @@@@@@@@@@@@@@Click it, the Active DHCP Client Table page appears. It shows the assigned IP address of the clients.

@@Enter the domain name if you know. @@You must enter host name (system name) on each individual PC. @@@@Click it, the Static IP Assignment Table page appears. @@The page shown in the following figure appears. @@It displays the MAC address of the PC.

MAC Address Each Ethernet device has a unique MAC address. @@Time Expired (s) It shows the lease time. @@@@The page shown in the following figure appears. @@It specifies the IP address of the IP address pool. After entering the host MAC address and assigned IP address, click it. A row will be added in the MAC-base assignment table. Select a row in the MAC-base assignment table. The MAC address and IP address appear. After modifying the MAC address and IP address, click it to save the settings. Delete Assigned IP Close MAC-based Assignment Table Select a row in the MAC-base assignment table, then click it, this row is deleted.

Close the page. It shows the assigned IP address based on the MAC address. 3.5 WLAN In the navigation bar, choose WLAN. The WLAN page that is displayed contains Basic Settings, Security, Advance Settings, Access Control, and WDS Settings.

This page introduces the wireless LAN and some basic configurations. Wireless LANs can be as simple as two computers with wireless LAN cards communicating in a peer-to-peer network or as complex as a number of computers with wireless LAN cards communicating through access points which bridge network traffic to wired LAN. 24 3.5.1 Basic Settings Choose WLAN > Basic Settings.

The page shown in the following figure appears. In this page, you can configure the parameters for wireless LAN clients that may connect to your access point. The following table describes the parameters and buttons of this page. Field Disable Interface The service set identification (SSID) is a unique name to identify the router in the (Root) SSID wireless LAN. Wireless stations associating to the router must have the same SSID. Enter a descriptive name. Set VSSID SSID Country/Area Click it, the Virtual SSID Setting page appears. In this page, you can enable 4 VSSIDs at most. You can enable or disable SSID. Select the region which you are in.

A channel is the radio frequency used by 802.11b/g wireless device. Channels available depend on your geographical area. You may have a choice of channels Channel Number (for your region) and you should use a different channel from an adjacent AP to reduce the interference. Interference and degrading performance occurs when radio signal from different APs overlap. Select a channel from the drop-down list box. Apply Changes Save the settings of this page. Wireless LAN Description By default, the wireless LAN is enabled. Select it to disable the wireless LAN. Click Set VSSID, the page shown in the following figure appears.

25 The following table describes the parameters and buttons of this page. Field Vap0 to Vap3 Enable SSID Auth Type Apply Changes Undo Description Select it to enable the virtual SSID. The service set identification (SSID) is a unique name to identify the router in the wireless LAN You can choose Open System, Shared Key, or Auto. Save the settings of this page. Refresh this page.

3.5.2 Security Choose WLAN > Security. The page shown in the following figure appears. Wireless security is vital to your network.

It protects the wireless communication among the wireless stations, access points and the wireless network. 26 The following table describes the parameters and buttons of this page. Field SSID Type Select the SSID. You can choose None, WEP, WPA (TKIP), WPA2 (AES), or WPA2 Mixed. Wired equivalent privacy (WEP) encrypts data frames before transmitting over Encryption the wireless network. Wi-Fi protected access (WPA) is a subset of the IEEE802.11i security specification draft. Key differences between WPA and WEP are user authentication and improved data encryption. Set WEP Key It is available when you set to WEP.



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Click it, the Wireless Wep Key Setup page appears.

RADIUS is based on a client-server model that supports authentication, Authentication Server RADIUS authorization and accounting. The access point is client and the server is RADIUS server. RADIUS is a simple package exchange in which your router acts as a message relay between the wireless station and the network RADIUS server. The default port of the RADIUS server for authentication is 1812. You need not Port IP Address Password Apply Changes change this value unless your network administrator instructs you to do so with additional information. Enter the IP address of the RADIUS server. Enter a password as the key to be shared between the external authentication server and the access point. The key is not send over the network. This key must be the same on the external authentication server and your router. Save the the changes of this page.

Description Click Set WEP Key, the page shown in the following figure appears. 27 The following table describes the parameters and buttons of this page. Field SSID TYPE Key Length Select the SSID. Select 64-bit or 128-bit to use data encryption. If you choose 64-bit, you can choose ASCII (5 characters) or Hex (10 Key Format characters).

If you choose 128-bit, you can choose ASCII (13 characters) or Hex (26 characters). Default Tx Key Select the default encryption key. The Encryption keys are used to encrypt the data. Both router and wireless stations must use the same encryption key for data transmission. If you choose 64-bit and ASCII (5 characters), enter any 5 ASCII characters.

If you choose 64-bit and Hex (10 characters), enter any 10 hexadecimal Encryption Key 1 to 4 characters. If you choose 128-bit and ASCII (13 characters), enter any 13 ASCII characters. If you choose 128-bit and Hex (26 characters), enter any 26 hexadecimal characters. Apply Changes Close Undo Save the changes of this page. Close this page. Refresh this page. Description 3.5.3 Advance Settings Choose WLAN > Advance Settings. The page shown in the following figure appears.

These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know the effect of the changes on your AP. 28 The following table describes the parameters of this page. Field Fragment Threshold Description This is the maximum data fragment size (between 256 and 2346bytes) that can be sent in the wireless network before the router fragments the packet into smaller data frames. Request to send (RTS) is designed to prevent collisions due to hidden node. A RTS defines the biggest size data frame you can send before a RTS handshake invoked. The RTS Threshold RTS threshold value is between 0 and 2347. If the RTS threshold value is greater than the fragment threshold value, the RTS hankshake do not occur. Because the data frames are fragmented before they reach the RTS size. Beacon Interval The amount of time between beacon transmissions.

A beacon is a packet broadcast by the access point to keep the network synchronized, and it can identify the presence of an access point. Preamble Type Relay Interval LAN/WLAN Interval Apply Changes Choose whether to use a long or short PLCP preamble to create the PLCP protocol data unit (PPDU). It is recommended to select Auto. Select Enable, connected clients can not communicate with each other within the local wireless network. Select Enable, connected clients can not communicate with each other within the local wireless network.

Save the changes of this page. 3.5.4 Access Control Choose WLAN > Access Control. The page shown in the following figure appears.

In this page, you can configure the wireless access control. 29 The following table describes the parameters and buttons of this page. Field Description You can choose Disable, Allow Listed, or Deny Listed. Select Mode Access Control Select Allow Listed, only the clients whose MAC address is listed can access the router. Select Deny Listed, the clients whose MAC address is listed are denied to access the router. Apply Changes MAC Addr Apply Changes Reset Current Access Control List Delete Delete All Reset Save the changes of selecting the access control mode. Enter the MAC address of the wireless station that are allowed or denied access to your router in this address field. Save the changes of MAC Addr. Refresh the MAC address. The MAC address in this table is allowed or denied to access to the router.

Delete the row you select in the current access control list. Delete all rows in the current access control list. Refresh the current access control list. 3.5.5 WDS Settings Choose WLAN > WDS Settings. The page shown in the following figure appears. 30 The following table describes the fields of this screen. Field Enable WDS MAC Addr Comment Apply Change Reset Current WDS AP List Delete Delete All Description Select it to enable the WDS function. Otherwise, you can not configure the settings of this page.

Enter the MAC address (in XX-XX-XX-XX-XX-XX format) of the AP. Enter the comment to describe the AP of the MAC address. Click it to add the MAC Addr with the Comment to Current WDS AP List. Click it to refresh the MAC Addr and Comment. It shows all APs of the WDS.

Delete the row you select in the current WDS AP list. Delete all rows in the current WDS AP list. 3.6 WAN In the navigation bar, choose WAN. The WAN page that is displayed contains WAN Interface and ADSL Settings.

3.6.1 WAN Interface Choose WAN > WAN Interface. The page shown in the following figure appears. In this page, you can configure WAN interface of your router. 31 The following table describes the parameters of this page. Field Current ATM VC Table Description This table shows the existed PVCs. It shows the Interface name, channel mode, VPI/VCI, encapsulation mode, local IP address, remote IP address and other information. The maximum item of this table is eight. Click it, the PPP Interface-Modify page appears.

You can modify the PVCs' parameters. VPI VCI Encapsulation Channel Mode Admin Status The virtual path between two points in an ATM network, ranging from 0 to 255. The virtual channel between two points in an ATM network, ranging from 32 to 65535 (1 to 31 are reserved for known protocols) You can choose LLC and VC-Mux. You can choose 1483 Bridged, 1483 MER, PPPoE, PPPoA, or 1483 Routed. Select Disable, this PVC is unusable. Select it to enable the NAPT function of the router. If you do not select it and Enable NAPT you want to access the Internet normally, you must add a router on the uplink equipment. Otherwise, the access to the Internet fails. Normally, it is required to enable NAPT. Login Name Password Connection Type Idle Time(min) The correct user name that your ISP has provided to you.

The correct password that your ISP has provided to you. You can choose Continuous, Connect on Demand, or Manual. If select connect on demand, you need to enter the idle timeout time. Within the preset minutes, if the router does not detect the flow of the user continuously, the router automatically disconnects the PPPoE connection.



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WAN IP Settings You can choose Fixed IP or Use DHCP.

Type If select Fixed IP, you should enter the local IP address, remote IP address and subnet mask. 32 Field Description If select Use DHCP, the router is a DHCP client, the WAN IP address is assigned by the remote DHCP server. Local IP Address Remote IP Address Subnet Mask Unnumbered Default Route Add Modify Delete Undo ATM Settings It is the IP address of WAN interface which is provided by your ISP. This is the gateway IP address which is provided by your ISP. It is the subnet mask of the local IP address.

Select it to enable IP unnumbered function. After configuring the parameters of this page, click it to add a new PVC into the current ATM VC table. Select a PVC in the current ATM VC table, then modify the parameters of this PVC. After finishing, click it to apply the change of this PVC. Select a PVC in the current ATM VC table, then click it to delete this PVC. Click it to refresh the page. Click it, the ATM Settings page appears. You can configure the parameters of the ATM for the router, including QoS type, PCR, CDVT, SCR and MBS. Click in the PPPoE mode. The page shown in the following figure appears.

In this page, you can configure parameters of this 1483 routed PVC. The following table describes the parameters and buttons of this page. Field PPP Interface Protocol ATM VCC Description The preset identifier of the PPP Interface. The protocol type used for this WAN connection. The ATM virtual circuit connection assigned for this PPP interface (VPI/VCI). 33 Field Status Login Name Password Authentication Method Connection Type Idle Time (min) Description The status of the PVC you are configuring. The login name provided by your ISP. The password provided by your ISP. You can choose Auto, CHAP, or PAP. You can choose Continuous, Connect on Demand, or Manual.

If select Connect on Demand, you need to enter the idle timeout time. Within the preset minutes, if the router does not detect the flow of the user continuously, the router automatically disconnects the PPPoE connection. Auto Disconnect Time Warn Disconnect Delay Default Route MTU IP Address Bridge AC-Name Service-Name 802.1q VLAN ID (0-4095) Apply Changes Return Undo Set the auto disconnect time, the router disconnects automatically, even if the data is being transmitted. If set auto disconnect time, you can configure a warning period that will follow the disconnect time, after which the router disconnects.

Select Enable, when you are configuring PPPoA, PPPoE, 1483 Routed and 1483 MER connections. The size of the largest packet or frame that can be transmitted. Choose a dynamic or static IP address for the WAN interface. You can choose Bridged Ethernet, Bridged PPPoE, or Disable Bridge. The accessed equipment type.

The service name. Specifies whether VLAN tagging should be used. The unique number assigned to this virtual LAN. Save the settings of this page. Return to the WAN Interface page. Refresh this page. Click ATM Setting in the WAN Interface page. The page shown in the following figure appears. In this page, you can configure the parameters of the ATM for your ADSL router, including QoS type, PCR, CDVT, SCR and MBS. The following table describes the parameters and buttons of this page.

34 Field VPI VCI QoS PCR CDVT SCR MBS Apply Changes Undo Close Description The virtual path identifier of the ATM PVC. The virtual channel identifier of the ATM PVC. The QoS category of the PVC. You can choose UBR, CBR, rt-VBR, or nrt-VBR. The maximum rate at which cells can be transported along a connection in the ATM network. The amount of delay permitted between ATM cells (expressed in microseconds). The maximum rate that traffic can pass over a PVC without the risk of cell loss. The maximum number of cells that can be transmitted at the PCR. Save the settings of this page. Refresh this page.

Close this page. 3.6.2 ADSL Settings Choose WAN > ADSL Settings. The page shown in the following figure appears.

In this page, you can select the DSL modulation. Mostly, you need to remain this factory default settings. The router supports these modulations: G.lite, G.Dmt, T1.

413, ADSL2, ADSL2+, AnnexL, and AnnexM. The router negotiates the modulation modes with the DSLAM. 3.7 Advance In the navigation bar, choose Advance. The Advance page that is displayed contains DNS, Firewall, Virtual Server, Routing, IP QOS, Anti-DOS, Port Mapping, and Other. 3.7.1 DNS Choose Advance > DNS. The DNS page that is displayed contains DNS Server and DDNS. 35 3.

7.1.1 DNS Server Click DNS Server in the left pane. The page shown in the following figure appears. Domain name system (DNS) is an Internet service that translates the domain name into IP address. Because the domain name is alphabetic, it is easier to remember. The Internet, however, is based on IP addresses. Every time you use a domain name, a DNS service translates the name into the corresponding IP address. For example, the domain name www.example.com might translate to 198.105.232.4. The DNS system has its own network.

If one DNS server does not know how to translate a particular domain name, it asks another one, and so on, until the correct IP address is returned. The following table describes the parameters and buttons of this page. Field Obtain Automatically Set DNS Manually Apply Changes Reset Selected DNS Description Select it, the router accepts the first received DNS assignment from one of the PPPoA, PPPoE or MER enabled PVC(s) during the connection establishment. Select it, enter the primary and optional secondary DNS server IP addresses. Save the settings of this page.

Refresh this page. 3.7.1.2 DDNS Click DDNS in the left pane. The page shown in the following figure appears. 36 3.7.2 Firewall Choose Advance > Firewall. The Firewall page that is displayed contains IP/Port Filter, MAC Filter, and URL Blocking.

3.7.2.1 IP/Port Filter Click IP/Port Filter in the left pane. The page shown in the following figure appears. Entries in this table are used to restrict certain types of data packets through the gateway. These filters are helpful in securing or restricting your local network. Click Apply Changes to save the settings of this page. Click Add Rule to add a new rule of the IP/Port filter. 37 The following table describes the parameters and buttons of this page.

Field Rule Action Direction Protocol Src IP Address Src Subnet Mask Src Port Dst IP Address Dst Subnet Mask Dst Port Add Description Select Deny to exclude traffic from the identified IP address and port. Select Allow to permit traffic from the identified IP address and port. Choose whether the rule applies to incoming or outgoing traffic. The protocol of the incoming or outgoing traffic. You can choose TCP, UDP, or ICMP.

The source IP address for which traffic is allowed or denied. The subnet mask of the source IP address for which traffic is allowed or denied. The port of the source IP address for which traffic is allowed or denied. The destination IP address for which traffic is allowed or denied.



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