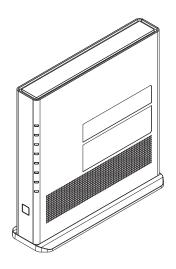


BBIQ10 ギガ光電話無線ルーター

MR1812 取扱説明書



このたびは、MR1812 をご利用いただきまして、 まことにありがとうございます。

- ご使用の前に、この「取扱説明書」をよくお読み のうえ、内容を理解してからお使いください。
- お読みになった後も、本機のそばなどいつも手もとに置いてお使いください。

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安全にお使いいただくために

本紙には、お客様や他の人々への危害や財産への損害を未然に防ぎ、本製品を安全にお使いいただくために、守っていただきたい事項を示しています。本紙をよくお読みのうえ、内容を理解してからお使いください。お読みになった後は、大切に保管してください。

⚠警告

絶対に行ってはいけないことを示しています。

この表示の注意事項を守らないと、使用者が死亡、または重傷を負う可能性が想定される内容を示しています。

- ●開口部や隙間から、内部に液体をこぼしたり、異物を混入させないでください。ショート、発火の原因となります。
- ●不安定な場所に配置しないでください。傾いた場所や狭い場所などに置くと、落ちたり倒れたりして、けがをする恐れがあります。
- ●電源コンセントはタコ足配線をしないでください。発火の原因になったり、電源使用 量を超えると、ブレーカーが落ち、他の機器に影響を及ぼす可能性があります。
- ●本製品を濡れた手で絶対に触れないでください。また、濡れた手や汚れた手でケーブルを抜き差ししないでください。感電する恐れがあります。
- ●電源コードのプラグを抜き差しする場合は、電源コードを持たず、必ずプラグを持って抜き差ししてください。電源プラグにほこりがついていないことを確認し、根元まで確実に差し込んでください。また、グラグラする電源プラグは使用しないでください。感電やショートによる発火の原因となります。
- ●本製品の使用中に異常な熱、煙、音、臭いなどの異常が生じた場合は、すぐに使用を中止して電源アダプタを抜いてください。そのまま使用すると、感電、発火の原因となります。
- ●本製品および電源アダプタ、電源コードが著しく変色している場合や、外観に破損がある場合は、電源コードを電源コンセントから抜いて使用を中止してください。火災、感電の原因となることがあります。
- ●電源コード、ケーブルを傷つける、破損する、加工する、無理に曲げる、引っ張る、ねじる、 束ねる、踏みつける、挟みこむなどをしないでください。また、電源コード、ケーブ ルに重いものを載せるなどをしないでください。電源コード、ケーブルが破損し、火災、 感電の原因となります。
- ●修理技術者以外の人は絶対に本製品を分解、修理、改造しないでください。感電、発火、 やけどの原因となります。
- ◆本製品は0~40℃の環境でお使いください。
- ●小さなお子様の手が届くところに置かないでください。ケーブルが首に巻きついて、 事故やけが、故障の原因となります。
- ●本製品を梱包しているビニール袋を小さなお子様の手が届くところに置かないでください。小さなお子様がかぶると窒息する恐れがあります。
- ●自動ドア、火災報知器など自動制御機器のそばに置かないでください。本製品からの 電波が自動制御機器に影響を及ぼすことがあり、誤動作による事故の原因となること があります。

- ●高精度な制御や微弱な信号を取り扱う電子機器や心臓ペースメーカなどのそばに設置 したり、そばで使用しないでください。また、医療用電子機器のそばや病院内など、 使用を制限された場所では使用しないでください。電子機器や心臓ペースメーカなど の誤動作の原因となることがあります。
- ●本製品の内部にほこりがたまっている場合は、電源アダプタとケーブルを抜いた状態で掃除機などを用いて吸い出し、エアダスターなどの清掃用スプレー(可燃性の物質を含む)は使用しないでください。その際、本体を分解しないでください。



この表示の注意事項を守らないと、使用者がけがをしたり、物的損害の発生が考えられる内容を示しています。

使用上の注意

●電波障害自主規制について

この装置は、クラス B 機器です。

この装置は、住宅環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると、受信障害を引き起こすことがあります。 取扱説明書に従って正しい取り扱いをして下さい。 VCCI-B

- ●本製品、電源アダプタを布や布団などで覆った状態で使用しないでください。本体内部の温度が上昇し、故障、変形、発火の原因となることがあります。
- ●電源アダプタは、必ず付属のものを使用してください。付属品以外のものを使用すると、 火災、感電の原因となります。
- ●付属の電源アダプタを本製品以外に使用しないでください。火災、感電の原因となる ことがあります。
- ●LAN ポートにLAN 機器以外は接続しないでください。デジタル回線 (ISDN)、電話回線などを接続すると、火災、発煙および故障の原因となります。
- ●本製品のケーブルコネクタへ金属などを接触させないでください。機器に大電流が流れて発熱したり、破損する原因となります。
- ●湿度の高い場所での保管や使用はしないでください。感電の原因となります。
- ●本製品を寒い所から急に暖かい所に移動させたときは、本体内部に結露が発生し、故障の原因となります。万一結露した場合は、電源を切った状態で放置し、完全に乾燥させてから電源を入れてください。
- ●通気孔をふさがないでください。冷却効果が低下して本体内部の温度が上がり、故障、 発火の原因となります。
- ●ストーブなどの火気に近付けないでください。本製品が変形し、ショート、発火、故障の原因となります。
- ●本製品の使用中にケーブルを誤って抜かないでください。また、ケーブルに足などを 引っ掛けないでください。使用中にケーブルが抜けると、大切なデータを失うことが あります。
- ●次のようなときは、本製品の電源を切ったり、電源コードを電源コンセントから抜かないでください。故障の原因となることがあります。
 - ・ 本製品の起動中
 - ・本製品のファームウェア更新中

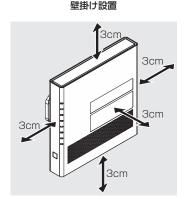
- ●本製品は使用中に発熱しますので、長時間触れないでください。低温やけどの原因となることがあります。
- ●そばに雷が発生したときは、電源コードを電源コンセントから抜いてご使用をお控え ください。火災、感雷の原因となります。
- ●長時間使用しないときは、電源コードを電源コンセントから抜いてください。絶縁劣 化による感電、漏電火災の原因となります。
- ●本製品は使用範囲を超えた条件で使用しないでください。機器の仕様に定められている定格電源電圧、電気信号などの入力範囲を超えて使用すると、破損する原因となることがあります。
- ●電源をオフにした後は約30秒待ってから電源をオンにしてください。電源を頻繁に オン/オフすると本製品の寿命を劣化させる原因となることがあります。
- ●本製品に乗らないでください。特に小さなお子様のいるご家庭ではご注意ください。 破損し、けがの原因となることがあります。
- ◆本製品の使用中、半年から1年に1回は電源コードを電源コンセントから抜いて、点検、 清掃をしてください。電源プラグにほこりがたまって、火災、感電の原因となります。
- ●本製品をお手入れする際は、電源コードを電源コンセントから抜いて、乾いた柔らかい布で拭いてください。シンナー、ベンジン、アルコールを使ったり、化学ぞうきんで拭かないでください。
- ●本製品には殺虫剤など揮発性のものをかけないでください。
- ●ゴム、ビニール製品などを本製品に長期間接触させないでください。

設置上の注意

- ◆本製品を家電やパソコンなどの発熱する機器の上に設置しないでください。故障、火 災の原因となることがあります。
- ●本製品の設置面以外には必ず3cm以上の空間ができるように設置してください。換気が悪くなると本体内部の温度が上がり、故障の原因となります。本製品には通気孔があります。十分な換気ができるように、本製品の周りに障害物を置かないでください。

3cm 3cm 3cm

縦置き設置



- ●本製品の上にものを置かないでください。また本製品をものの間に立てて置かないでください。換気が悪くなると本体内部の温度が上がり、故障、変形、破損することがあります。
- ●本製品はじゅうたん、布団、毛布、ベッドの上で使用しないでください。本体内部の 温度が上がり、火災、故障の原因となります。
- ●屋外に設置しないでください。屋外に設置された場合の動作保証はいたしません。
- ●直射日光のあたる場所や暖房器具のそばに設置しないでください。故障の原因となります。
- ●水や油などの液体や湯気のかかる場所に設置しないでください。故障の原因となります。
- ●ほこりの多い場所に設置しないでください。故障の原因となります。
- ●衝撃のかかる場所に設置しないでください。故障の原因となります。
- ●本体に接続しているケーブルは踏まない場所に設置してください。ケーブルを踏むと、 感電、故障の原因となります。
- ●本製品をビニール袋に入れたまま使用しないでください。本体内部の温度が上がり、 故障、発火の原因となります。
- ●本製品を落としたり、強い衝撃を与えないでください。故障の原因となることがあります。
- ●本製品を持ち運ぶ際は、落とさないように注意して持ち運んでください。電源を切り、電源プラグを抜き、接続ケーブルをすべて抜いてください。本体とケーブルに無理な力や衝撃が加わると本体が落下し、けが、故障の原因となります。
- ●本製品のそばに紙などの燃えやすいものを置かないでください。発熱により、火災の原因となります。
- ●高級家具などの高価なものの上やそばに置かないでください。発熱により、変色、変形の原因となります。
- ●本製品をテレビ、ラジオ、コードレス電話機などのそばに設置しないでください。テレビ、ラジオ、コードレス電話機などにノイズが入ることがあります。

無線通信の電波に関する注意

●本製品は、技術基準適合証明を受けています。

本製品の無線通信で使用する周波数帯では、電子レンジなどの産業・科学・医療用機器のほか工場の製造ラインなどで使用されている移動体識別用の構内無線局(免許を要する無線局)及び特定小電力無線局(免許を要しない無線局)ならびにアマチュア無線局(免許を要する無線局)が運用されています。

- 1) 本製品の無線通信を使用する前に、近くで移動体識別用の構内無線局および特定小電力無線局ならびにアマチュア無線局が運用されていないことを確認してください。
- 2)万一、本製品から移動体識別用の構内無線局に対して有害な電波干渉の事例が発生 した場合には、すみやかに使用周波数を変更するか、または、電波の発射を停止し たうえ、混信回避のための処置についてご契約された事業者にご相談ください。
- 3)その他、本製品から移動体識別用の特定小電力無線局あるいはアマチュア無線局に対して有害な電波干渉の事例が発生した場合など、何かお困りのことが起きた際は、ご契約された事業者にお問い合わせください。

次の記載は、本製品のIEEE802.11b/g/n/ax 無線通信に関する「2.4GHz 帯の使用・変調方式・想定干渉距離・周波数変更の可否」を表します。

2.4 DS/OF4

表示	表示の意味
2.4	2.4GHz 帯を使用する無線設備を表します。
DS/OF	変調方式として DS-SS 方式および OFDM 方式を採用しています。
4	想定干渉距離が 40m 以下を表します。
	全帯域を使用し、かつ、移動体識別装置の帯域を回避可能であることを表します。

- ●電子レンジ付近、静電気や電波障害の発生する場所、金属ドアで遮断された部屋などでは、ご使用にならないでください。
 - 使用環境により、電波が届かない場合があります。
 - ・無線通信の伝播距離や接続速度は、使用環境によって大きく変動します。
- ●本製品を W52、W53 で使用する場合、屋外での使用は法令により禁止されています。

次の記載は、本製品の IEEE802.1 l a/n/ac/ax 無線通信に関する「5GHz 帯の対応仕様」を表します。

W52 W53 W56

表示	周波数	表示の意味	
W52	5.2GHz 帯	36/40/44/48 チャンネルに対応	
W53	5.3GHz 帯	52/56/60/64 チャンネルに対応	
W56	5.6GHz帯 100/104/108/112/116/120/124/128/132/136 140/144チャンネルに対応		

商標について

- ●「QTnet」および「BBIQ」「ビビック」の名称・ロゴは、株式会社 QTnet の商標または登録商標です。
- ●「トレンドマイクロホームネットワークセキュリティ」は、トレンドマイクロ株式会社の商標です。
- ●「QR コード」は、株式会社デンソーウェーブの登録商標です。
- ●「Bluetooth」は、米国 Bluetooth SIG,Inc. の商標です。
- ●「Android」は、米国 Google LLC の商標です。
- ●「iOS」は、米国 Cisco Technology,Inc. の米国およびその他の国における商標または登録商標であり、ライセンスに基づき使用されています。
- ●その他、記載されている会社名、製品名、サービス名などは、各社の商標または登録商標です。
- ●本文中に TM および®マークは明記しません。

セキュリティホームネットワー

トレンドマイクロホームネットワークセキュリティのご利用について

BBIQ10 ギガ光電話無線ルーターでは、トレンドマイクロ社のホームネットワークセキュリティを無料でご利用いただけます。ご利用には専用アプリのインストールが必要です。**

ホームネットワークセキュリティの機能については右記の QR コードからご確認いただけます。



アプリのインストール手順

- Android または iOS のスマートフォンまたはタブレットをご用意ください。
- 2. ご利用のスマートフォンまたはタブレットを本製品 の Wi-Fi に接続してください。
- 3. ご利用のスマートフォンまたはタブレットで右記の QR コードをスキャンし、管理のための専用アプリ をインストールしてください。



ホームネットワークセキュリティに関するよくある質問は右記の QR コードからご確認いただけます。



※不正サイトブロックなど一部機能は専用アプリなしでもご利用いただけます。

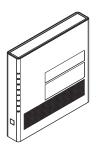
1 ご利用前の確認

1.1. 付属品の確認

本製品には、本体および付属品が同梱されています。ご使用の前に不足品がないかご確認ください。

本体

· MR1812



付属品

• 電源アダプタ



・スタンド



• LAN ケーブル(1 本)



・ 電話ケーブル (2本)



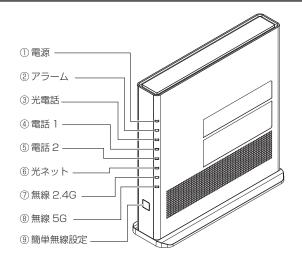
• 固定用ネジ (2本)



• 取扱説明書(本書)

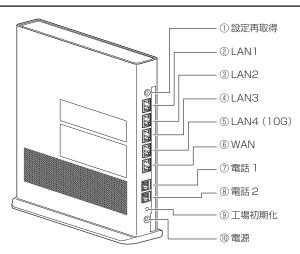
1.2. 各部の名称

正面



ランプ名称	色	状態	機能説明
		点灯	電源 ON
	緑	点滅	再起動が必要なため、電源コンセントの抜き差しを お願いします。
	赤	点灯 (10 秒間)	WPS 設定失敗
①電源	93/	点滅 (10 秒間)	WPS 設定失敗
	橙	点灯 (10 秒間)	WPS 設定成功
		点滅	WPS 無線設定中
	_	消灯	電源 OFF
	赤	点灯	装置起動中
		点滅	装置設定中
②アラーム	橙	点灯	WAN リンクダウン
	赤→橙	繰返し点滅	装置故障
	_	消灯	正常動作中
	緑	点灯	光電話 PPP 接続中
	橙	点灯	IPv4 アドレス取得失敗
③ 光電話	恒	点滅	IPv4 アドレス取得中
	赤	点灯	光電話 PPP 認証失敗
		点滅	光電話 PPP 認証中
	_	消灯	WAN リンクダウン

ランプ名称	色	状態	機能説明	
	緑	点灯	電話 1 使用可能	
		点滅 (0.5 秒)	電話 1 着信中	
④電話 1		点滅 (1 秒)	電話 1 使用中	
	赤	点灯	光電話サービスに登録失敗	
	W/	点滅	光電話サービスに登録中	
	_	消灯	光電話サービス未契約	
		点灯	電話 2 使用可能	
	緑	点滅 (0.5 秒)	電話 2 着信中	
⑤電話2		点滅 (1 秒)	電話 2 使用中	
	赤	点灯	光電話サービスに登録失敗	
	W/	点滅	光電話サービスに登録中	
	_	消灯	光電話サービス未契約	
	緑	点灯	IPv4(IPv6)の接続成功	
	橙	点滅	IPv4/IPv6 アドレス取得中	
	715	点灯	PPP 認証失敗	
⑥ 光ネット		点滅	PPP 認証中	
. [緑→橙→消	繰返し点滅	IPv4/IPv6 アドレスいずれかが取得失敗	
	_	消灯	ルーター機能 OFF 時、WAN リンクダウン時、 PPP-ID 未設定時	
	<i>4</i> =	点灯	無線動作中	
	緑	点滅	起動時のオートチャンネルセレクト動作時	
⑦無線 2.4G	赤	点灯	干渉波検出時	
	亦	点滅	干渉波検出時のチャンネル自動選択機能動作時	
,	_	消灯	無線 LAN 機能 OFF 時	
		点灯	無線動作中	
	緑	点滅	起動時のオートチャンネルセレクト動作時または DFS 動作中	
⑧ 無線 5G		点灯	干渉波検出時	
	赤	点滅	干渉波検出時のチャンネル自動選択機能動作時	
,	_	消灯	無線 LAN 機能 OFF 時	
⑨ 簡単無線設定		— // J//J	WPS ボタン	



名称	機能説明	
①設定再取得	装置の設定を再取得するときに使用します。	
@LAN1		
3 LAN2	プバソコンなどを接続するためのポートです。 LAN1~3ポートは最大 1Gbps を、LAN4ポートは最大 10Gbps をサポ	
4 LAN3	LANT ~ 3 水一下は嵌入 TODDS を、LAN4 水一下は嵌入 TOODDS をサポー 一トします。	
⑤ LAN4 (10G)		
6 WAN	回線終端装置などを接続するためのポートです。	
⑦電話 1	電話機を接続するためのポートです。	
⑧電話2		
⑨ 工場初期化	本製品の設定を工場出荷状態に初期化するためのボタンです。	
10 電源	付属の電源アダプタを接続します。	

2 セットアップ

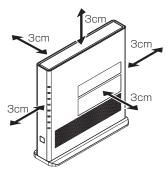
2.1. 設置

注意

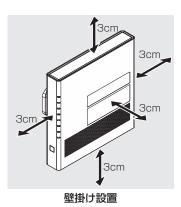
- ・冷蔵庫やテレビなど、ノイズ源となる可能性のある機器の近くには設置しないでください。
- ・本製品を重ね置きしないでください。重ね置きすると内部に熱がこもり、火災の原因となること があります。

本製品の上下前後左右 3cm 以内*に壁などのものがない場所に設置してください。

※:縦置き時の底面および壁掛け時の壁掛け面を除く





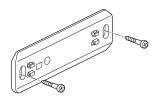


縦置き設置

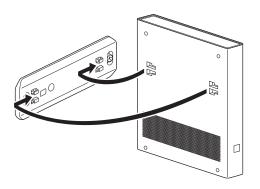
本体に付属のスタンドを付けて縦置きでご使用ください。



1. 本体に付属のスタンドを底面が壁側になるように、付属の固定用ネジで取り付けてください。



2. 本製品を横にスライドさせて固定してください。



注意

- ・壁掛け面を除く上下左右と正面に 3cm 以上の空間を作って設置してください。
- ・本製品が落下すると危険ですので、大きな衝撃や振動などが加わる場所には設置しないでください。
- ・スタンドはベニヤ板などの柔らかい壁に取り付けないでください。本製品が落下すると危険ですので、確実に固定できる場所に取り付けてください。
- ・壁掛け設置されている状態でケーブル接続やボタン操作などを行う場合、本製品が落下する と危険ですので、必ず本製品を手で支えながら作業してください。

2.2. 接続

2.2.1. パソコンや電話機などと本製品をケーブルで接続する

1. パソコン、電話機、回線終端装置を接続します。

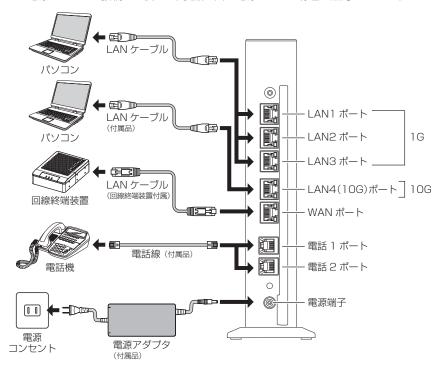
回線終端装置と WAN ポートの接続には、回線終端装置に付属の LAN ケーブルを使用してください。

LAN 1 \sim 3(1G)ポートの LAN ケーブルは付属しておりません。別途ご用意ください。

LAN4(10G)ポートは、付属の LAN ケーブル(STP タイプ)を使用してください。 ※ WAN および LAN4(10G)ポートに使用する LAN ケーブルは、STP かつカテゴリ 6A を推奨します。

2. 電源アダプタを接続します。

必ず付属の電源アダプタを使用してください。 電源アダプタを接続した後に、本製品正面の電源ランプが緑色に点灯すれば正常です。



2.2.2. パソコンやスマートフォンと本製品を無線 LAN で接続する

手動で接続する

1. 無線 LAN 接続させるデバイス(パソコンやスマートフォンなど)で Wi-Fi ネットワークのリストを表示させます。

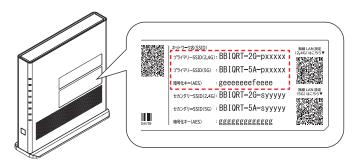




Wi-Fi ネットワークリストの表示例

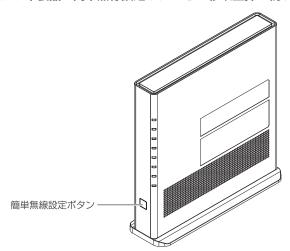
2. 表示させた Wi-Fi ネットワークのリストから、接続するネットワーク名 (SSID) を選択し、パスワード (暗号化キー) を入力します。

本製品のネットワーク名(SSID) およびパスワード(暗号化キー)は、本製品の側面にあるラベルに記載されています。



簡単無線設定は WPS 機能を使って簡単に無線 LAN 接続できる設定方法です。接続させるデバイスが WPS 対応であれば簡単無線設定が可能です。

- 1. 無線 LAN 接続させるデバイス(パソコンやスマートフォンなど)の WPS アイコンや WPS ボタンなどを押します。
- 2. 2 分以内に、本製品の簡単無線設定ボタンを 3 秒以上押し続けます。



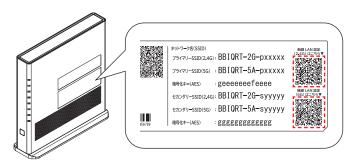
お知らせ

- ・本機能で設定できるのはプライマリ SSID のみになります。
- ・簡単無線設定中は、無線 LAN 接続させるデバイスを本製品の近くに配置してください。
- ・SSIDの「暗号化タイプ」が「セキュリティなし」および「WPA3-SAE」に設定されている場合は、WPS 機能が無効になり簡単無線設定で接続できません。(47ページ参照)
- 「SSID ステルス機能」がオンの場合は、簡単無線設定で接続できません。(47 ページ参照)
- •「MAC アドレスフィルタリング機能」がオンの場合、MAC アドレスフィルタリングリストに登録されていないデバイスは無線 LAN 接続できないため、簡単無線設定での接続もできません。(47 ページ参照)
- ・WPS 対応ではないデバイスは簡単無線設定で接続できません。

QR コードを読み取って接続する

本製品側面のラベルに記載された QR コードをスマートフォンのカメラアプリで読み取るだけで簡単に無線 LAN 接続できる方法です。

1. スマートフォンでカメラアプリを開き、本製品側面のラベルに記載された QR コードを読み取ります。



お知らせ

- •「MAC アドレスフィルタリング機能」がオンの場合、MAC アドレスフィルタリングリスト に登録されていないデバイスは無線 LAN 接続できないため、QR コード読み取りによる接 続もできません。(47 ページ参照)
- ・スマートフォンの仕様によっては、QR コード読み取りによる接続ができない場合があります。
- ・ 本製品側面のラベルに記載された SSID または暗号化キーを変更している場合、QR コード 読み取りによる接続ができません。

3 BBIQ 光電話

3.1. BBIQ 光電話を利用する

BBIQ 光電話ご契約の場合、本製品に接続した電話機で通話をする事ができます。 ④電話 1 または⑥電話 2 のランプが緑点灯している場合、BBIQ 光電話が利用可能です。

電話のかけかた

- 1. 電話機の受話器を取り上げ「ツー」という音を確認します。
- 2. 相手の電話番号をダイヤルします。

電話番号をダイヤルすると発信し、④電話 1 または⑤電話 2 のランプが緑点滅します。

3. 通話が終わったら受話器を置きます。

④電話 1 または⑤電話 2 のランプが緑点灯します。

電話の受けかた

- 1. 電話機の着信音が鳴り、④電話 1 または⑤電話 2 のランプが緑点滅します。
- 2. 受話器を取り上げて通話します。
- 3. 通話が終わったら受話器を置きます。

④電話 1 または⑤電話 2 のランプが緑点灯します。

受話器から聞こえる通知音について

BBIQ 光電話を使用する際に受話器から聞こえる通知音については下表の通りです。

音の種類	説明
発信音(ツー)	発信できる状態です。相手の電話番号をダイヤルすると発信します。
呼出音(トゥルルル・・・)	発信後、相手を呼び出している状態です。相手が電話に出ると通話ができます。
話中音(ツー、ツー、…)	発信した相手が通話中で着信できない状態です。受話器を置き改めて発信してください。
保留中表示音(相手の通 信事業者による音)	通話中の相手に割込通話サービスで着信した時に相手から保留されている状態です。音は相手の通信事業者により異なります。「ツー」「トゥルルル」など。相手から保留解除されると通話が再開されます。
着信音(電話機の着信音)	着信している状態です。電話機の着信音が鳴ります。受話器を上げると 通話ができます。
通話中着信通知音(通話中にツツ、ツツ…)	割込通話サービスを利用している場合、通話中に割込みで着信している 状態です。電話機のフックボタンを一度押すと通話する相手が切り替わ ります。 別途、割込通話サービスの契約が必要です。
ハウラ音(プーという大 きな音)	通話していない状態で受話器が上がったままになっている状態です。受話器を置き直す事で音が止まります。
エラー音(ピー、ピー…)	BBIQ 光電話が使用出来ない状態です。本製品の再起動やサービス設定の初期化を試してください。

4 基本設定

4.1. 本製品にログイン(初回)

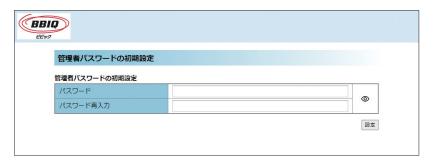
本製品の設定は Web 設定画面を使います。 初めて本製品にログインするときは、管理者パスワードを設定する必要があります。

- 1. パソコンから Web ブラウザを起動します。
- 2. アドレスバーに以下のアドレスを入力し、Enter キーを押します。 http://192.168.0.1
- 3. 任意のパスワードを入力して

 設定

 をクリックします。

 ② をクリックするとパスワードの表示 / 非表示を切り替えることができます。



お知らせ

パスワードを忘れてしまった場合は、本製品を初期化してから、再度管理者パスワードの初期設定を実施する必要があります。

4.2. 本製品にログイン(2回目以降)

本製品へのログインが2回目以降の場合は、ユーザー名とパスワードを入力します。

- 1. パソコンから Web ブラウザを起動します。
- 2. アドレスバーに以下のアドレスを入力し、Enter キーを押します。 http://192.168.0.1
- 3. ユーザー名に「admin」と入力します。
- 4. パスワードに、初回ログイン時に設定した管理者パスワードを入力して ログインをクリックします。



お知らせ

- ・お使いの OS や Web ブラウザによってログイン画面やログイン方法が異なる場合があります。画面の指示に従って操作してください。
- ・パスワードを忘れてしまった場合は、本製品を初期化してから、再度管理者パスワードの初期設定を実施する必要があります。

4.3. ホーム画面

本製品にログインすると、ホーム画面が表示されます。

電話、無線 LAN デバイス、有線 LAN デバイスの接続情報を確認できます。



項目	内容
ご契約内容	光電話および無線 LAN 機能のご契約内容を表示します。
電話ステータス	電話の接続情報を表示します。
無線 LAN デバイスリスト	無線 LAN デバイスの接続情報を表示します。
LAN デバイスリスト	有線 LAN デバイスの接続情報を表示します。
BBIQ このロゴをクリックすると、ホーム画面に戻りま	
ログアウト	クリックすると、Web 設定画面からログアウトします。

5 詳細設定

本製品の詳細な設定確認や設定変更が可能です。

画面左側のメニューをクリックすると、画面右側にサブメニューおよび詳細画面が表示されます。



メニュー	サブメニュー	内容	参照 ページ
WAN 側	WAN 接続ステータス	インターネット側の接続状態を表示します。	P.27
ステータス	ポート転送テーブル	ポート転送テーブルの情報を表示します。	P.29
	WAN 接続設定	インターネットに接続するための設定をします。	P.30
WAN 側 設定	IPv4 パケット フィルタ	IPv4 パケットフィルタの追加、編集、削除を行います。	P.31
	IPv6 パケット フィルタ	IPv6 パケットフィルタの追加、編集、削除を行います。	P.33
	ポート転送	ポート転送設定の追加、編集、削除を行います。	P.35
	その他	WAN 側のその他の機能を設定します。	P.37

メニュー	サブメニュー	内容	参照 ページ
	無線 LAN ステータス	無線 LAN の基本的な設定を表示します。	P.39
無線 LAN	無線 LAN アクセスポイント	周辺の無線 LAN(5GHz 帯 /2.4GHz 帯)の アクセスポイントや利用状況を確認できます。	P.40
ステータス	無線 LAN デバイス	無線 LAN に接続しているデバイスを表示します。	P.42
	無線 LAN メッシュ	無線 LAN メッシュネットワークに接続され ている機器を表示します。	P.43
	無線 LAN 基本設定	無線 LAN の基本設定を行います。	P.44
	無線 LAN 詳細設定	無線 LAN の詳細設定を行います。	P.45
無線 LAN	無線 LAN SSID	無線 LAN SSID の各種設定を行います。	P.47
設定	MAC アドレス フィルタリング	無線 LAN ネットワークへの接続を許可する MAC アドレスを管理します。	P.49
	無線 LAN デバイス設定	無線LANデバイス名の設定や削除を行います。	P.51
LAN 側	LAN 情報	有線 LAN ポートの接続状態を表示します。	P.52
ステータス	LAN デバイス	有線 LAN で接続しているデバイスを表示します。	P.53
	LAN 側設定	LAN 側の設定を行います。	
LAN 側	DHCP 固定割当	特定の MAC アドレスのデバイスに固定した IP アドレスを割り当てます。	P.55
設定	IPv4 ルーティング	別の IPv4 ネットワークにデータを転送します。	P.57
	UPnP	ネットワークに接続する UPnP 対応デバイス同士を通信させる機能です。	P.59
	再起動	本製品を再起動します。	P.60
	設定値の初期化	本製品の設定値を初期化します。	P.61
管理	設定値の保存&復元	本製品の設定値を保存および復元することができます。	P.63
	管理者パスワードの変更	本製品の管理者パスワードを変更します	P.64
	システムログ	本製品で行った通信のログを表示します。	P.65
診断	PING テスト	対象ホストにパケットを送信して疎通確認 (PING テスト)を行います。	P.69

5.1. WAN 側ステータス

5.1.1. WAN 接続ステータス

インターネット側の接続状態を表示します。

1. ホーム画面から「WAN 側ステータス」 - 「WAN 接続ステータス」の順で 画面を開きます。



項目		内容		
WAN 情報	WAN ポート状態	WAN ポートの接続状態を	表示します。	
	IPv4 接続ステータス	IPv4 への接続状態を表示 します。	接続または切断をクリ	
	IPv6 接続ステータス	IPv6 への接続状態を表示 します。	ックすると、手動で接続 または切断できます。 	
	IPv4アドレス	IPv4 アドレスを表示します	.	
	DNS サーバー	IPv4 DNS サーバーの IP アドレスを表示します。 IPv6 アドレス / プレフィックス長 (グローバルアドス) を表示します。		
WAN 接続	IPv6 アドレス / プレフィックス長(グローバル)			
	IPv6 アドレス / プレフィックス長(リンクローカル)	 IPv6 アドレス / プレフィ : ドレス)を表示します。	ックス長(リンクローカルア	
	プライマリ DNSv6 サーバー	プライマリ DNSv6 サーバーアドレスを表示します。		
セカンダリ DNSv6 サー バー		セカンダリ DNSv6 サーハ	ンダリ DNSv6 サーバーアドレスを表示します。	

5.1.2. ポート転送テーブル

ポート転送テーブルの情報を表示します。

1. ホーム画面から「WAN 側ステータス」 - 「ポート転送テーブル」の順で画面を開きます。



項目		内容
	現在の登録件数	ポート転送テーブルの登録件数を表示します。
	プロトコル	使用されているプロトコルを表示します。
10 1 += >>4	WAN 側ポート番号	WAN 側のポート番号を表示します。
ポート転送 テーブル	LAN 側ポート番号	LAN 側のポート番号を表示します。
3 370	WAN 側 IP アドレス	WAN 側の IP アドレスを表示します。
	LAN 側 IP アドレス	LAN 側の IP アドレスを表示します。
	有効期限(秒)	ポートが開いている時間を表示します。

5.2. WAN 側設定

5.2.1. WAN 接続設定

インターネットに接続するための設定をします。 ※WAN接続後の装置設定が完了した場合は、本画面は表示されません。

1. ホーム画面から「WAN 側設定」-「WAN 接続設定」の順で画面を開き、各項目を設定します。



項目		内容
	ユーザー名	プロバイダーから指定されたアカウント名を入力します。
WAN 接続	パスワード	プロバイダーから指定された接続パスワードを入力します。

2. 設定をクリックして、設定内容を保存します。

5.2.2. IPv4 パケットフィルタ

IPv4 パケットフィルタの追加、編集、削除を行います。

- ホーム画面から「WAN 側設定」-「IPv4 パケットフィルタ」の順で画面を 開きます。
- 2. IPv4 パケットフィルタエントリー画面で、現在の登録状況が確認できます。



	項目	内容
	機能	パケットフィルタ機能のオン / オフを表示します。
	優先度	フィルタエントリーの優先度を表示します。数字の小さいエ ントリーから処理されます。
	種別	フィルタ条件に一致したパケットの処理方法を表示します。
	方向	フィルタ対象とするパケットの方向を表示します。
	プロトコル	フィルタ対象とするパケットのプロトコルを表示します。
IPv4 パケット フィルタ	送信元 IP アドレス	フィルタ対象とするパケットの送信元 IP アドレスとサブネットマスクを表示します。
エントリー	送信元ポート番号	フィルタ対象とするパケットの送信元ポート番号を表示します。
	宛先 IP アドレス	フィルタ対象とするパケットの宛先 IP アドレスとサブネット マスクを表示します。
	宛先ポート番号	フィルタ対象とするパケットの宛先ポート番号を表示します。
	編集	指定したフィルタエントリーを編集します。
	削除	指定したフィルタエントリーを削除します。
	追加	フィルタ条件を追加します。

3. IPv4 パケットフィルタエントリー画面で 追加 または 設定 をクリックする と、IPv4 パケットフィルタ 追加 / 編集画面が表示されます。情報の入力 または修正を行います。

BBIQ		ログアウト	
WAN側ステータス	IPv4パケットフィルタ IPv6パケットフィ	rルタ ボート転送 その他	
WAN側設定	IPv4パケットフィルタ?		
無線LANステータス	IPv4パケットフィルタ 追加/編集		
無線LAN設定	パケットフィルタ機能	◎ オン ○ オフ	
LAN側ステータス	優先度		
LAN側設定	種別	○許可 ⑧ 破業	
管理	方向		
診断		IPすべて ▼	
	プロトコル	ICMP MESSAGE 指定なし V	
		ТҮРЕ	
	送信元IPアドレス	any	
	送信元ポート番号	● any ○ 範囲指定-	
	宛先IPアドレス	any	
	宛先ポート番号	● any ○ 範囲指定-	
		前のページへ戻る	
		ホーム画面へ戻る	

	項目	内容
	パケットフィルタ 機能	パケットフィルタ機能のオン/オフを設定します。
	優先度	フィルタエントリーの優先度を設定します。数字の小さいエントリーから処理されます。1~64の間で設定可能です。
IPv4	種別	フィルタ条件に一致したパケットの処理方法を設定します。 (許可:設定したパケットのみ許可、破棄:設定したパケットを破棄)
パケット	方向	フィルタ対象とするパケットの方向を設定します。
フィルタ	プロトコル	フィルタ対象とするパケットのプロトコルを設定します。
追加 / 編集	送信元 IP アドレス	フィルタ対象とするパケットの送信元 IP アドレスとサブネットマスクを設定します。※
	送信元ポート番号	フィルタ対象とするパケットの送信元ポート番号を設定します。※
	宛先 IP アドレス	フィルタ対象とするパケットの宛先 IP アドレスとサブネット マスクを設定します。※
	宛先ポート番号	フィルタ対象とするパケットの宛先ポート番号を設定します。※

※:すべてのパケットを対象とする場合は「any」を選択します。

4. 設定をクリックして、設定内容を保存します。

5.2.3. IPv6 パケットフィルタ

IPv6 パケットフィルタの追加、編集、削除を行います。

- 1. ホーム画面から「WAN 側設定」-「IPv6 パケットフィルタ」の順で画面を 開きます。
- 2. IPv6 パケットフィルタエントリー画面で、現在の登録状況が確認できます。



	項目	内容
	機能	パケットフィルタ機能のオン/オフを表示します。
	優先度	フィルタエントリーの優先度を表示します。数字の小さい エントリーから処理されます。
	種別	フィルタ条件に一致したパケットの処理方法を表示します。
	方向	フィルタ対象とするパケットの方向を表示します。
	プロトコル	フィルタ対象とするパケットのプロトコルを表示します。
IPv6 パケット	送信元 IPv6 アドレス	フィルタ対象とするパケットの送信元 IPv6 アドレスとプレフィックス長を表示します。
フィルタ エントリー	送信元ポート番号	フィルタ対象とするパケットの送信元ポート番号を表示します。
	宛先 IPv6 アドレス	フィルタ対象とするパケットの宛先 IPv6 アドレスとプレフィックス長を表示します。
	宛先ポート番号	フィルタ対象とするパケットの宛先ポート番号を表示します。
	編集	指定したフィルタエントリーを編集します。
	削除	指定したフィルタエントリーを削除します。
	追加	フィルタ条件を追加します。

3. IPv6 パケットフィルタエントリー画面で追加または編集をクリックすると、IPv6 パケットフィルタ 追加 / 編集画面が表示されます。情報の入力または修正を行います。

BBIQ EEvo		ログアウト
WAN側ステータス	IPv4パケットフィルタ IPv6パケットフ	イルタ ポート転送 その他
WAN側設定	IPv6パケットフィルタ ?	
無線LANステータス	IPv6パケットフィルタ 追加/編集	
無線LAN設定	パケットフィルタ機能	◎ オン ○ オフ
LAN側ステータス	優先度	
LAN側設定	種別	○ 許可 ⑥ 破棄
管理	方向	● WAN->LAN ○ LAN->WAN
診断		IPv6すべて ∨
	プロトコル	ICMPv6 MESSAGE 指定なし V
	送信元IPv6アドレス	● any ○ アドレス指定 / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / /
	送信元ポート番号	● any ○ 範囲指定-
	宛先IPv6アドレス	● any ○ アドレス指定 / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / / /
	宛先ポート番号	● any ○ 範囲指定-
		前のページへ戻る」〔設定〕
		ホーム画面へ戻る

	項目	内容
	パケットフィルタ機能	パケットフィルタ機能のオン/オフを設定します。
	優先度	フィルタエントリーの優先度を設定します。数字の小さいエントリーから処理されます。1 ~ 64 の間で設定可能です。
	種別	フィルタ条件に一致したパケットの処理方法を設定します。 (許可:設定したパケットのみ許可、破棄:設定したパケットを破棄)
IPv6	方向	フィルタ対象とするパケットの方向を設定します。
パケット フィルタ	プロトコル	フィルタ対象とするパケットのプロトコルを設定します。
追加/編集	送信元 IPv6 アドレス	フィルタ対象とするパケットの送信元 IPv6 アドレスとプレフィックス長を設定します。※
	送信元ポート番号	フィルタ対象とするパケットの送信元ポート番号を設定します。※
	宛先 IPv6 アドレス	フィルタ対象とするパケットの宛先 IPv6 アドレスとプレフィックス長を設定します。※
	宛先ポート番号	フィルタ対象とするパケットの宛先ポート番号を設定します。※

※:すべてのパケットを対象とする場合は「any」を選択します。

4. 設定をクリックして、設定内容を保存します。

5.2.4. ポート転送

ポート転送設定の追加、編集、削除を行います。

- 1. ホーム画面から「WAN 側設定」-「ポート転送」の順で画面を開きます。
- 2. ポート転送エントリー画面で、現在の登録状況が確認できます。



	項目	内容
	機能	ポート転送機能のオン / オフを表示します。
	プロトコル	転送ポートに適用するプロトコルを表示します。
	WAN 側ポート番号	WAN 側(転送元)のポート番号を表示します。
ポート転送	LAN 側ポート番号	LAN 側(転送先)のポート番号を表示します。
エントリー	LAN 側 IP アドレス	LAN 側(転送先)の IP アドレスを表示します。
	編集	指定したポート転送エントリーを編集します。
	削除	指定したポート転送エントリーを削除します。
	追加	ポート転送設定を追加します。

3. ポート転送エントリー画面で追加または編集をクリックすると、ポート転送 追加 / 編集画面が表示されます。情報の入力または修正を行います。



	項目	内容
	ポート転送機能	ポート転送機能のオン / オフを設定します。
	プロトコル	転送ポートに適用するプロトコルを設定します。
ポート転送 追加 / 編集	WAN 側ポート番号	WAN 側(転送元)のポート番号を入力します。
2加7 榆木	LAN 側ポート番号	LAN 側(転送先)のポート番号を入力します。
	LAN側IPアドレス	LAN 側(転送先) の IP アドレスを入力します。

4. 設定をクリックして、設定内容を保存します。

5.2.5. その他

WAN 側のその他の機能を設定します。

1. ホーム画面から「WAN 側設定」「その他」の順で画面を開き、各項目を 設定します。



	項目	内容
	IPv4 ICMP 応答機能	IPv4 ICMP 応答機能のオン / オフを設定します。 初期値はオフです。 オンにすると WAN からの IPv4 の ICMP に応答します。
WAN 接続	IPv6 ICMP 応答機能	IPv6 ICMP 応答機能のオン / オフを設定します。 初期値はオフです。 オンにすると WAN からの IPv6 の ICMP に応答します。
NAPT	TCPタイマ(秒)	TCP コネクション (セッション)確立後に、通信していない状態でセッションを保持できる時間を設定します。 初期値は 900 で、30 ~ 3600 の間で設定可能です。
	UDP タイマ(秒)	通信していない状態で UDP のセッション管理を保持できる時間を設定します。 初期値は 300 で、30 ~ 3600 の間で設定可能です。
DNS プロキシ	ネガティブキャッシュ 機能	ネガティブキャッシュ機能のオン / オフを設定します。 初期値はオフです。 オンにするとネガティブキャッシュが保持されます。
セキュリティ 機能	セキュリティ機能	トレンドマイクロホームネットワークセキュ リティのオン / オフを設定します。 本機能をご契約すると自動でオンに設定され ます。

5.3. 無線 LAN ステータス

|5.3.1. 無線 LAN ステータス

無線 LAN の基本的な設定を表示します。

1. ホーム画面から「無線 LAN ステータス」 「無線 LAN ステータス」 の順で 画面を開きます。



項目		内容
	チャネル	無線 LAN の使用チャンネルを表示します。
無線 LAN ステータス (2.4GHz) 無線 LAN ステータス	MAC アドレス (プライマリ SSID)	プライマリ SSIDの MAC アドレスを表示します。
(5GHz)	MAC アドレス (セカンダリ SSID)	セカンダリ SSIDの MAC アドレスを表示します。

5.3.2. 無線 LAN アクセスポイント

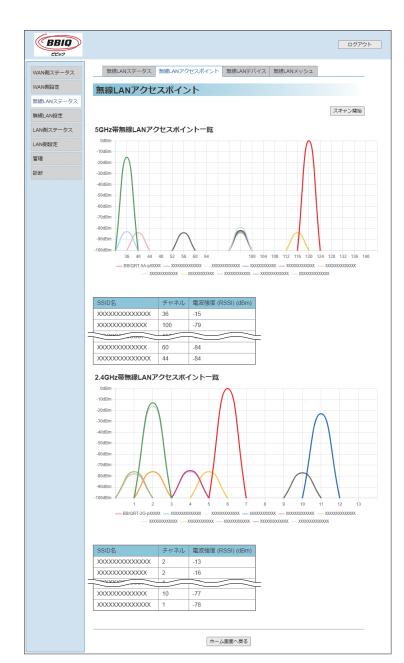
周辺の無線LAN(5GHz帯/2.4GHz帯)のアクセスポイントや利用状況を確認できます。

1. ホーム画面から「無線 LAN ステータス」 - 「無線 LAN アクセスポイント」 の順で画面を開きます。



- 2. スキャン開始をクリックします。
 - ※スキャン終了後に、5GHz 帯 /2.4GHz 帯の周辺無線 LAN 利用状況グラフとアクセスポイント一覧が表示されます。

(5GHz 帯、2.4GHz 帯の各々に最大 20 件まで表示されます)



5.3.3. 無線 LAN デバイス

無線 LAN に接続しているデバイスを表示します。

1. ホーム画面から「無線 LAN ステータス」 - 「無線 LAN デバイス」の順で画面を開きます。



項目		内容
	SSID名	SSID を表示します。
	MAC アドレス	MAC アドレスを表示します。
	デバイス名	無線 LAN デバイスの名称を表示します。
	電波強度 (RSSI) (dBm)	電波強度を表示します。
無線 LAN	通信方式	通信方式を表示します。
デバイス	帯域幅 (MHz)	周波数帯域幅を表示します。
	IPv4アドレス	IPv4 アドレスを表示します。
	IPv6 アドレス (グローバル)	IPv6 アドレス(グローバル)を表示します。
	IPv6 アドレス (リンクローカル)	IPv6 アドレス(リンクローカル)を表示します。

5.3.4. 無線 LAN メッシュ

無線 LAN メッシュネットワークに接続されている機器を表示します。

1. ホーム画面から「無線 LAN ステータス」 - 「無線 LAN メッシュ」の順で画面を開きます。



項目		内容
	No	各機器に付与された番号を表示します。
	機器名	機器名を表示します。
	IPアドレス	IPアドレスを表示します。
コントローラ・	MAC アドレス	MAC アドレスを表示します。
エージェント	接続先	接続先の機器を No で表示します。
デバイス	接続帯域	接続帯域(有線、2.4G、5G) を表示します。
	電波状態	無線 LAN の電波強度を表示します。
	種別※	種別(コントローラ [親機]、エージェント [子機]) を表示します。

※: コントローラ・エージェントのみに表示されます。

5.4. 無線 LAN 設定

5.4.1. 無線 LAN 基本設定

無線 LAN の基本設定を行います。

1. ホーム画面から「無線 LAN 設定」 「無線 LAN 基本設定」の順で画面を開き、各項目を設定します。



項目		内容
無線 LAN 基本設定 (2.4GHz) 無線 LAN 基本設定 (5GHz)	セカンダリ SSID	セカンダリ SSID 機能のオン / オフを設定します。 初期値はオンです。

5.4.2. 無線 LAN 詳細設定

無線 LAN の詳細設定を行います。

1. ホーム画面から「無線 LAN 設定」 「無線 LAN 詳細設定」の順で画面を開き、各項目を設定します。

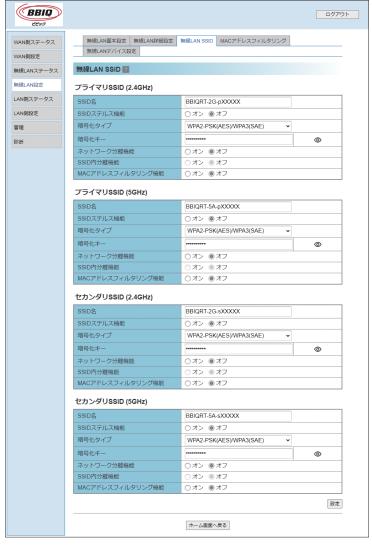


項目		内容
	チャネル自動切換え機能	チャネル自動切換え機能のオン / オフを設定します。 初期値はオンです。 オンにすると電波状態の良いチャネルを自動 選択します。
無傾 ANI 詳細歌堂	送信出力	無線 LAN の送信出力を設定します。 初期値は 100% です。
無線 LAN 詳細設定	バンドステアリング 機能	バンドステアリング機能のオン / オフを設定 します。 初期値はオフです。
	メッシュ機能	メッシュ機能のオン / オフを設定します。 初期値はオフです。 オンにすると本製品がメッシュ親機に設定されます。
無線 LAN 詳細設定 (2.4GHz)	チャネル	無線 LAN の使用チャンネルを設定します。 初期値は自動です。
無線 LAN 詳細設定	モード	無線 LAN の動作モードを設定します。
(5GHz)	帯域幅 (MHz)	無線 LAN の周波数帯域幅を選択します。

5.4.3. 無線 LAN SSID

無線 LAN SSID の各種設定を行います。

1. ホーム画面から「無線 LAN 設定」-「無線 LAN SSID」の順で画面を開き、 各項目を設定します。



項目		内容
	SSID 名	SSID 名(ネットワーク名)を設定します。
	SSID ステルス機能	SSID ステルス機能のオン / オフを設定します。 初期値はオフです。 オンにすると、無線 LAN デバイスから SSID が見 えなくなります。
	暗号化タイプ	暗号化タイプを設定します。 初期値は WPA2- PSK(AES)/WPA3(SAE) です。
プライマリ SSID	暗号化キー	暗号化キー(パスワード)を設定します。
(2.4GHz) ブライマリ SSID (5GHz) セカンダリ SSID (2.4GHz) セカンダリ SSID (5GHz)	ネットワーク分離機能	ネットワーク分離機能のオン / オフを設定します。 初期値はオフです。 オンにすると、他の有線 LAN ポートや他の SSID に接続されたデバイスとの通信を制限することができます。また、Web 設定画面へのアクセスも制限 することができます。
	SSID 内分離機能	SSID 内分離機能のオン / オフを設定します。 初期値はオフです。 オンにすると、同じ SSID のネットワークに接続されたデバイスとの通信を制限することができます。
	MAC アドレスフィ ルタリング機能	MAC アドレスフィルタリング機能のオン / オフを設定します。 初期値はオフです。 オンにすると登録した MAC アドレス以外は無線 LAN 接続できません。

5.4.4. MAC アドレスフィルタリング

無線 LAN ネットワークへの接続を許可する MAC アドレスを管理します。

- 1. ホーム画面から「無線 LAN 設定」-「MAC アドレスフィルタリング」の順で画面を開きます。
- 2. MAC アドレスフィルタリングエントリー画面で、現在の登録状況が確認できます。



Ij	目	内容
	MAC アドレス	接続を許可する MAC アドレスを表示します。
MAC アドレス フィルタリング	編集	MAC アドレスフィルタリング登録を編集します。
エントリー	削除	MAC アドレスフィルタリング登録を削除します。
	追加	MAC アドレスフィルタリング登録を追加します。

3. MAC アドレスフィルタリングエントリー画面で追加または編集をクリックすると、MAC アドレスフィルタリング 追加 / 編集画面が表示されます。 情報の入力または修正を行います。



項目		内容
MAC アドレス フィルタリング 追加 / 編集	MAC アドレス	接続を許可する MAC アドレスを設定します。

5.4.5. 無線 LAN デバイス設定

無線LANデバイス名の設定や削除を行います。

1. ホーム画面から「無線 LAN 設定」 「無線 LAN デバイス設定」の順で画面を開き、各項目を設定します。



項目		内容
	接続/切断	接続状況を表示します。
	MAC アドレス	MAC アドレスを表示します。
	デバイス名	デバイス名を設定します。
無線 LAN デバイス設定	削除	デバイス名を削除したい場合は、チェックボックスをクリックしてチェックマークを入れます。 「すべて選択」をクリックすると、デバイス名が設定されている行のチェックボックスすべてにチェックマークが入ります。(グレーに塗られたチェックボックスにチェックマークは入りません) 「すべて選択解除」をクリックすると、チェックボックスに入っているチェックマークすべてが消去されます。

2. デバイス名を設定する場合は、<u>設定</u>をクリックして設定内容を保存します。 デバイス名を削除する場合は、削除をクリックします。

5.5. LAN 側ステータス

5.5.1. LAN 情報

有線 LAN ポートの接続状態を表示します。

1. ホーム画面から「LAN 側ステータス」-「LAN 情報」の順で画面を開きます。



	項目	内容
	LAN ポート 1 状態	LAN1 ポートの接続状態を表示します。
	LAN ポート 2 状態	LAN2 ポートの接続状態を表示します。
	LAN ポート 3 状態	LAN3 ポートの接続状態を表示します。
LAN 情報	LAN ポート 4 状態 (10G)	LAN4 ポートの接続状態を表示します。
	MAC アドレス	本製品の MAC アドレスを表示します。
	IPv4アドレス	本製品の IPv4 アドレスを表示します。
	IPv6 アドレス / プレフィックス長(グローバル)	本製品の IPv6 アドレス / プレフィックス長 (グローバル) を表示します。
	IPv6 アドレス / プレフィックス長(リンクローカル)	本製品の IPv6 アドレス / プレフィックス長 (リンクローカル) を表示します。

5.5.2. LAN デバイス

有線 LAN で接続しているデバイスを表示します。

1. ホーム画面から「LAN 側ステータス」-「LAN デバイス」の順で画面を開きます。



	項目	内容
	LAN ポート	有線 LAN 接続しているポートを表示します。
LAN デバイス	MAC アドレス	有線 LAN 接続しているデバイスの MAC アドレスを表示します。
	IPv4 アドレス	有線 LAN 接続しているデバイスの IPv4 アドレスを表示します。
	IPv6 アドレス (グローバル)	有線 LAN 接続しているデバイスの IPv6 アドレス(グローバル)を表示します。
	IPv6 アドレス (リンクローカル)	有線 LAN 接続しているデバイスの IPv6 アドレス(リンクローカル)を表示します。

5.6. LAN 側設定

5.6.1. LAN 側設定

LAN 側の設定を行います。

1. ホーム画面から「LAN 側設定」 - 「LAN 側設定」の順で画面を開き、各項目を設定します。



項目		内容
LAN 側 IP アドレス	LAN 側 IP アドレス	LAN 側の IP アドレスとサブネットマスクを 設定します。
LAN ポート ネットワーク分離	LAN ポート2	ネットワーク分離機能のオン / オフを設定し ます。
	LAN ポート3	初期値はオフです。 オンにすると、同じネットワークに接続され
	LAN ポート4	たデバイスとの通信を制限することができま

DHCP サーバー	DHCP サーバー機能	DHCP サーバー機能のオン / オフを設定します。 初期値はオンです。
	DHCP 割当 IP アドレス	DHCP クライアントに割り当てる IP アドレスを設定します。
	リース期間 (時間)	DHCP クライアントに割り当てる IP アドレスの有効期間を設定します。 初期値は24で、0~72の間で設定可能です。
	WINS サーバーアドレス	DHCP クライアントに通知する WINS サーバーアドレスを設定します。

2. 設定をクリックして、設定内容を保存します。

5.6.2. DHCP 固定割当

特定の MAC アドレスのデバイスに固定した IP アドレスを割り当てます。

- 1. ホーム画面から「LAN 側設定」-「DHCP 固定割当」の順で画面を開きます。
- 2. DHCP 固定割当エントリー画面で、現在の登録状況が確認できます。



	項目	内容
DHCP 固定割当 エントリー	MAC アドレス	固定した IP アドレスを割り当てるデバイス の MAC アドレスを表示します。
	IPアドレス	特定の MAC アドレスに割り当てる IP アドレスを表示します。
	編集	DHCP 固定割当登録を編集します。
	削除	DHCP 固定割当登録を削除します。
	追加	DHCP 固定割当登録を追加します。

 DHCP 固定割当エントリー画面で追加または編集をクリックすると、 DHCP 固定割当 追加 / 編集画面が表示されます。情報の入力または修正を行います。



項目		内容
	DHCP 割当 IP アドレス	固定割当可能な IP アドレスを表示します。
DHCP 固定割当	MAC アドレス	固定した IP アドレスを割り当てるデバイス の MAC アドレスを設定します。
追加/編集	IP アドレス	特定の MAC アドレスに割り当てる IP アドレスを設定します。

5.6.3. IPv4 ルーティング

別の IPv4 ネットワークにデータを転送します。

- 1. ホーム画面から「LAN 側設定」-「IPv4 ルーティング」の順で画面を開きます。
- 2. IPv4 ルーティングエントリー画面で、現在の登録状況が確認できます。



項目		内容
	宛先 IP アドレス	宛先 IP アドレスとサブネットマスクを表示します。
IPv4 ルーティング	ゲートウェイ	転送先になるゲートウェイの IP アドレスを表示します。
エントリー	編集	IPv4 ルーティング登録を編集します。
	削除	IPv4 ルーティング登録を削除します。
	追加	IPv4 ルーティング登録を追加します。

3. IPv4 ルーティングエントリー画面で 追加 または 編集 をクリックすると、 IPv4 ルーティング 追加 / 編集画面が表示されます。情報の入力または修正を行います。



項目		内容
IPv4 ルーティング	宛先 IP アドレス	宛先 IP アドレスとサブネットマスクを設定します。
追加/編集	ゲートウェイ	転送先になるゲートウェイの IP アドレスを設定します。

5.6.4. UPnP

UPnP(ユニバーサルプラグアンドプレイ)は、ネットワークに接続する UPnP 対応デバイス同士を通信させる機能です。

1. ホーム画面から「LAN 側設定」 - 「UPnP」の順で画面を開き、項目を設定します。



項目		内容
UPnP	UPnP 機能	UPnP 機能のオン / オフを設定します。 初期値はオンです。

5.7. 管理

5.7.1. 再起動

本製品を再起動します。

1. ホーム画面から「管理」-「再起動」の順で画面を開きます。



- 2. 再起動をクリックします。
- 3. ダイアログが表示されたらOKをクリックします。

※しばらくすると本製品が自動的に再起動します。

5.7.2. 設定値の初期化

本製品の設定値を初期化します。

1. ホーム画面から「管理」-「設定値の初期化」の順で画面を開きます。



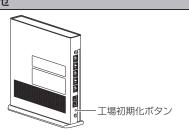
項目		内容
	工場出荷初期化	すべての設定値を工場出荷状態に戻します。
設定値の初期化	ルーター設定の 初期化	お客様が設定した値のみを初期化します。 (遠隔操作により保守者が設定した値は初期化され ません)
	サービス設定の 再取得	ご契約内容に応じた本製品の設定を再取得します。

- 2. 「工場出荷初期化」をクリックします。
- 3. ダイアログが表示されたら OK をクリックします。

※初期化が開始され、しばらくして本製品が自動的に再起動を行うと初期化は完了です。Web ブラウザを閉じてください。

お知らせ

- 本体背面の工場初期化ボタンでも工場出荷 初期化が可能です。
 - 本製品の電源が入った状態で背面の工場初期化ボタンを3秒以上押し続けると、再起動が始まり工場出荷状態に戻ります。



ルーター設定の初期化

- 2. 「ルーター設定の初期化」をクリックします。
- 3. ダイアログが表示されたら OK をクリックします。

※初期化が開始され、しばらくして本製品が自動的に再起動を行うと初期化は完了です。Web ブラウザを閉じてください。

サービス設定の再取得

- 2. 「サービス設定の再取得」をクリックします。
- 3. ダイアログが表示されたら OK をクリックします。

※再取得が開始され、しばらくして本製品が自動的に再起動を行うと再取得は完了です。Web ブラウザを閉じてください。

・本体背面の設定再取得ボタンでも再取得が可能です。 本製品の電源が入った状態で背面の設定再取得ボタンを3秒以上押し続けると、再起動が始まりサービス設定の再取得が完了します。

5.7.3. 設定値の保存&復元

本製品の設定値を保存および復元することができます。

1. ホーム画面から「管理」-「設定値の保存&復元」の順で画面を開きます。



設定値の保存

- 2. ファイルへ保存をクリックします。
 - ファイル名は「年月日 _MR1812.bin (例:20220630_MR1812.bin)」です。
- 3. ファイル保存の通知バーまたはダイアログが表示される場合は、表示に従って操作します。

設定値の復元

- 4. 参照をクリックして、保存されているファイルを選択します。
- 5. | 設定値の復元 | をクリックすると、設定ファイルがインストールされます。 ※設定ファイルがインストールされると、本製品が自動的に再起動します。再起動 が完了すると、設定値が復元されます。

お知らせ

・お使いの OS や Web ブラウザによって保存方法や復元方法が異なる場合があります。画面 の指示に従って操作してください。

5.7.4. 管理者パスワードの変更

本製品の管理者パスワードを変更します。

1. ホーム画面から「管理」-「管理者パスワードの変更」の順で画面を開きます。

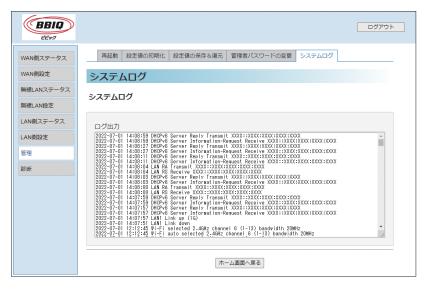


- 2. 「現在のパスワード」、「新しいパスワード」、「新しいパスワード再入力」を 入力し、設定をクリックします。
 - ▼をクリックするとパスワードの表示 / 非表示を切り替えることができます。

5.7.5. システムログ

本製品で行った通信のログを表示します。

1. ホーム画面から「管理」-「システムログ」の順で画面を開きます。



種別	出力内容	ログフォーマット
	Request の再送が リトライアウト時	DHCPv6-PD <type> Retryover</type>
	Solict 送信時	DHCPv6-PD Solicit Transmit
	Advertise 受信時	DHCPv6-PD Advertise Receive DHCPv6-PD Error Advertise Receive <reason></reason>
DI IOD O	Request 送信時	DHCPv6-PD Request Transmit
DHCPv6 クライアント	Reply 受信時	DHCPv6-PD Reply Receive <prefix>/<prefix length=""> DHCPv6-PD Error Reply Receive <reason></reason></prefix></prefix>
	Reconfigure 受信時	DHCPv6-PD Reconfigure Receive
	Renew 送信時	DHCPv6-PD Renew Transmit
	Rebind 送信時	DHCPv6-PD Rebind Transmit
	Release 送信時	DHCPv6-PD Release Transmit
	Solicit 受信時	DHCPv6 Server Solicit Receive <linklocal addr=""></linklocal>
	Advertise 送信時	DHCPv6 Server Advertise Transmit <linklocal addr=""> DHCPv6 Server Error Advertise Transmit <linklocal addr=""> <reason></reason></linklocal></linklocal>
	Request 受信時	DHCPv6 Server Request Receive <linklocal addr=""></linklocal>
DHCPv6 サーバ	Reply 送信時	DHCPv6 Server Reply Transmit <linklocal addr=""> DHCPv6 Server Reply Transmit <linklocal addr=""> <prefix>/<prefix length=""> DHCPv6 Server Error Reply Transmit <linklocal addr=""> <reason>"</reason></linklocal></prefix></prefix></linklocal></linklocal>
	Renew 受信時	DHCPv6 Server Renew Receive <linklocal addr=""></linklocal>
	Rebind 受信時	DHCPv6 Server Rebind Receive <linklocal addr=""></linklocal>
	Release 受信時	DHCPv6 Server Release Receive <linklocal addr=""></linklocal>
	Information- Request 受信時	DHCPv6 Server Information-Request Receive <linklocal addr=""></linklocal>
	Reconfigure 送信時	DHCPv6 Server Reconfigure Transmit <linklocal addr=""></linklocal>
	LAN 側端末に IP アドレス付与時	DHCP Assigned <ipaddr> <mac> <host></host></mac></ipaddr>
DHCPv4 サーバ	配布する IP アドレス 枯渇時	DHCP Assignment Error <mac> <reason></reason></mac>
	クライアント情報 削除時	DHCP Released <ipaddr> <mac> <reason></reason></mac></ipaddr>
IPv6	IP アドレス重複 検出時	LAN DAD detected <linklocal addr=""></linklocal>
	RA 送信時(本装置では、RS 受信時に対する RA 送信時のみ表示に変更)	LAN RA Transmit <linklocal addr=""></linklocal>
	RS 受信時	LAN RS Receive <linklocal addr=""></linklocal>

種別	出力内容	ログフォーマット
	IPCP 確立	PPP Connected (IPv4)
PPP	IPv6CP 確立	PPP Connected (IPv6)
	PPP 接続失敗	PPP Failure <reason></reason>
	PPP 接続切断	PPP Disconnected <reason></reason>
PPPoE	BAS から応答が無い 時	PPPoE Failure Discovery Timeout
	セッション枯渇	PPPoE Failure Session Limit Reached
ブロードキャ	ブロードキャスト ストーム検知	PADI storm detected
ストストーム	ブロードキャスト ストーム解除	PADI storm cleared
HTTP アクセス	Basic 認証に失敗時	Basic authentication failure
	Assoc 失敗	Wi-Fi Station connection failure <band> <ssid> <mac> Association Failure</mac></ssid></band>
	DisassocRequest 受信	Wi-Fi Disassociation Request Receive <band> <ssid> <mac></mac></ssid></band>
	Reassoc 失敗	Wi-Fi Station connection failure <band> <ssid> <mac> Reassociation Failure</mac></ssid></band>
	Disassoc 送信	Wi-Fi Disassociation Transmit <band> <ssid> <mac></mac></ssid></band>
	4-way handshake 失敗	Wi-Fi Station connection failure <ssid> <mac> PTK 4way handshake failed</mac></ssid>
	2-way handshake 失敗	Wi-Fi Station connection failure <ssid> <mac> GTK 2way handshake failed</mac></ssid>
	Auth 成功	Wi-Fi Authentication Success <band> <ssid> <mac></mac></ssid></band>
無線 LAN	Auth 失敗	Wi-Fi Station connection failure <band> <ssid> <mac> Authentication Failure</mac></ssid></band>
	Wi-Fi 端末接続	Wi-Fi Station connected <band> <ssid> <mac></mac></ssid></band>
	Wi-Fi 端末接続失敗	Wi-Fi Station connection failure <ssid> <mac> <reason></reason></mac></ssid>
	Deauth 受信	Wi-Fi Station connection failure <band> <ssid> <mac> Deauthentication Received</mac></ssid></band>
	Deauth 送信	Deauthentication Request Transmit <band> <ssid> <mac></mac></ssid></band>
	自動チャネル選択完了時	Wi-Fi auto selected <band> channel <chnum> (<lowsubchnum>-<highsubchnum>) bandwidth <width> Wi-Fi auto selected <band> channel <chnum> bandwidth <width></width></chnum></band></width></highsubchnum></lowsubchnum></chnum></band>
	Stuck Beacon 検出時	Wi-Fi start dynamic channel selection <band></band>
	送信 Stuck 検出時	Wi-Fi start dynamic channel selection <band></band>

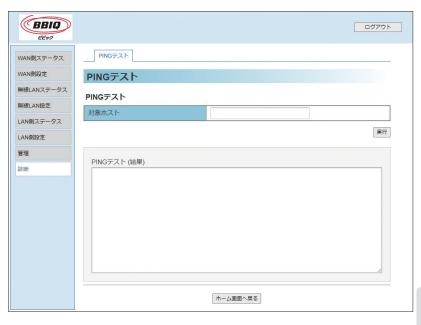
種別	出力内容	ログフォーマット
無線 LAN	無線 LAN チャネル が変更されたとき無 線 LAN 機能が起動 したとき	Wi-Fi selected <band> channel <chnum> (<lowsubchnum>-<highsubchnum>) bandwidth <width> Wi-Fi selected <band> channel <chnum> bandwidth <width></width></chnum></band></width></highsubchnum></lowsubchnum></chnum></band>
	DFS 動作時	Wi-Fi start DFS <band></band>
	WPS(PBC) 成功	WPS(PBC) Success <band> <ssid> <mac></mac></ssid></band>
WPS	WPS(PBC) 失敗 (タイムアウト)	WPS(PBC) Failure (Timeout) <band> <ssid> <mac></mac></ssid></band>
WF3	WPS(PBC) 失敗 (SessionOverlap 検出)	WPS(PBC) Failure (session overlaped) <band> <ssid> <mac></mac></ssid></band>
Facy Mach	Mesh 子機の接続	Connect Mesh Adopter <mac> to <ssid></ssid></mac>
EasyMesh	Mesh 子機の切断	Disconnected Mesh Adopter <mac> from <ssid></ssid></mac>
	WAN ポートリンクア ップ	WAN Link up (<linkspeed>)</linkspeed>
インターフェ	LAN ポートリンクア ップ	LAN <portnum> Link up (<linkspeed>)</linkspeed></portnum>
一ス状態	WAN ポートリンクダ ウン	WAN Link down
	LAN ポートリンクダ ウン	LAN <portnum> Link down</portnum>
電話	電話利用可能時 (RegisterOK 時)	Phone <number> available</number>
	電話利用不可時	Phone <number> unavailable</number>
セキュリティ 機能	Home Network Security 使用開始	Start Home Network Security Package
	Home Network Security 使用停止	Stop Network Security Package

5.8. 診断

5.8.1. PING テスト

対象ホストにパケットを送信して疎通確認(PING テスト)を行います。

1. ホーム画面から「診断」-「PING テスト」の順で画面を開きます。



- 2. 「対象ホスト」で対象とするホストの IPv4 アドレス、IPv6 アドレス、またはホスト名を入力します。
- 3. 実行をクリックすると PING テスト結果が表示されます。

6 トラブルシューティング

分類	現象	対処方法
	電源ランプが緑点 灯しない	 電源アダプタが電源コンセントに正しく接続しているかを確認してください。 電源アダプタが破損していないかを確認してください。破損している場合はすぐに電源アダプタを電源コンセントから外して、本製品のラベルに記載のお問い合わせ先に連絡してください。 本製品の電源を切った後、すぐに電源を入れ直さないでください。約30秒待ってから電源を入れてください。すぐに電源を入れると電源が入らないことがあります。
L E D	アラームランプが 赤点灯している	・ 本製品に何らかの問題が生じている状態です。電源アダプタを取り外して本製品の電源を切り、約30秒待ってから再度電源を投入して、アラームランプの状態を確認してください。同じ状況が続く場合、本製品のラベルに記載のお問い合わせ先に連絡してください。
	WAN ポートの状態表示 LED が点灯しない	 回線終端装置の電源が入っているか、正しく回線のリンクが確立できているかを確認してください。 本製品のWANポートが回線終端装置に、付属品のLANケーブルで正しく接続されているかを確認してください。WANポートにカチッと音がするまで差し込み、ケーブルを軽く引いてロックがかかっていることを確認してください。ケーブルによってはあまり強く差し込んだり、強く引っ張ると、接触不良や断線の原因となることがあります。
WEB 画面	Web 設定画面に アクセスできない	 LAN ケーブルが本製品の LAN ポートとパソコンの間に正しく接続されているかを確認してください。 本製品とパソコンの間を無線 LAN で接続する場合は、接続先の SSID が本製品のものかどうかを確認してください。 IP アドレス 192.168.0.1 でアクセスし、ユーザー名は admin、パスワードは設定した任意の管理者パスワードでログインしてください。 パソコンの IP アドレスが製品と同じサブネット上にあることを確認してください。
	ログインパスワー ドを思い出せない	・ 本製品を初期化します。本製品背面の初期化ボタンを 3 秒以上押し続けてください。初期化完了後、Web 設定画面にアクセスし、再度管理者パスワードの初期設定を実施してください。
	ネットワーク名 (SSID) を忘れて しまった	・ 本製品の LAN ポートと LAN ケーブルで接続したパソコンから、Web 設定画面にアクセスし、ホーム画面から「無線 LAN 設定」-「無線 LAN SSID」の順で画面を開き、SSID 名の項目を確認してください。 ・ 初期状態の SSID 名は、本製品のラベルに記載されています。
無線 LAN	Wi-Fi ネットワー クのリストで本製 品の SSID を検索 できない	・ホーム画面から「無線 LAN 設定」-「無線 LAN 基本設定」の順で画面を開き、無線 LAN 機能がオンになっているかを確認してください。
	無線 LAN パスワー ドを思い出せない	・ホーム画面から「無線 LAN 設定」-「無線 LAN SSID」の順で画面を 開き、暗号化キーの項目で ⊙ をクリックして、パスワードを確認し てください。
製品本体	製品本体が熱い状態が長時間続く	・本製品は高温検出時、自動的にシャットダウンします。 高温状態が解消されると、本製品は自動的に復旧します。 何度も発生 する場合は、設置環境を見直してください。 で使用にあたっては、直射日光を避け本製品の上下前後左右 3cm 以 内にパソコンや壁などのものがない、換気性のよい適切な環境で、ま た横置きや重ね置きせずにで使用ください。縦置き時の底面および壁 掛け時の壁掛け面は除きます。

フ 仕様

7.1. ハードウェア仕様

ランプ					
電源、アラ-	-ム、光電話、電	話 1、電話 2、光ネット、無線 2.4G、無線 5G			
ボタン					
簡単無線設定(正面)、設定再取得(背面)、工場初期化(背面)					
入出力ポート					
WAN	規格	10GBASE-T、5G/2.5GBASE-T、1000BASE-T、100BASE-TX			
		オートネゴシエーション			
	コネクタ形状	RJ45 × 1			
LAN 1~3	規格	1000BASE-T、100BASE-TX、10BASE-T オートネゴシエーション			
	コネクタ形状	RJ45 × 3			
LAN4 (10G)	規格	10GBASE-T、5G/2.5GBASE-T、1000BASE-T、100BASE-TX オートネゴシエーション			
	コネクタ形状	RJ45 × 1			
電話					
1~2	コネクタ形状	RJ11 × 2			
無線 LAN (
周波数帯域		2.4GHz 帯(2412 ~ 2472MHz) /1 ~ 13ch			
802.11 €·	ード	IEEE802.11 ax/n/g/b			
転送速度		最大 1147Mbps (IEEE802.11ax、帯域幅 40MHz 使用時)			
アンテナ		4 (送信)×4 (受信)内蔵アンテナ			
帯域幅 無線 LAN(ECH2)	20MHz、40MHz			
milk LAIV (30112)	「W52] 5.2GHz 帯(5180 ~ 5240MHz) /36、40、44、48ch			
E '- * + + + + + + + + + + + + + + + + + +	/ 	[W53] 5.3GHz帯(5260~5320MHz) /52、56、60、64ch			
周波数帯域 / 	/ ナヤイル	[W56] 5.6GHz 帯(5500 ~ 5720MHz) /100、104、108、			
		112、116、120、124、128、132、136、140、144ch			
802.11モード		IEEE802.11 ax/ac/n/a			
転送速度		最大 4803Mbps(IEEE802.1ax、帯域幅 160MHz 使用時)			
アンテナ		4 (送信)×4 (受信)内蔵アンテナ			
帯域幅		20MHz、40MHz、80MHz、160MHz			
電源					
入力		AC100V ± 10V、50/60Hz			
消費電力		約 34W 以下			
その他					
動作環境		温度:0~40℃、湿度:10~90%(結露しないこと)			
外形寸法(W × D × H)		約 40 × 230 × 230mm(スタンド、電源アダプタ含まず)			
質量		約 2.0kg 以下(スタンド、電源アダプタ含まず)			
		·			

7.2. 本製品の無線規格について

本製品が対応している無線規格をご確認頂き、環境に応じて使用する無線 LAN の設定を行ってください。

無線規格について

本製品で対応している無線規格は下表の通りです。

ご利用のパソコンやスマートフォン、タブレットなどの無線 LAN 子機がいずれかの規格に対応しているかご確認ください。

周波数	規格	チャネル	帯域幅
2.4GHz	IEEE802.11ax/n/g/b	1 ~ 13ch	20/40MHz
5GHz	IEEE802.11ax/ac/n/a	(W52) 36/40/44/48ch (W53) 52/56/60/64ch (W56)100/104/108/112 /116/120/124/128/132 /136/140/144ch	20/40/80/160MHz

周波数帯域について

無線規格で規定されているいくつかの周波数帯のうち、本製品は「5GHz 帯」と「2.4GHz 帯」に対応しております。各周波数帯には以下の特徴があります。

周波数	特徴		
2.4GHz	・ 5GHz に比べ電波が遠くまで届きやすい。 ・ 無線 LAN 以外の Bluetooth などでも使用されている周波数帯であるため、他の機 器と干渉する事で不安定になりやすい。		
5GHz	・電波干渉を受けにくく通信が安定する。 ・壁などの遮蔽物に弱く、あまり遠くまで電波が届かない。 ・ W52、W53 のチャネルは、屋外での利用が禁止されている。 W56 は屋外で利用可能。		

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株式会社ブロードネットマックス

GPL 関連窓口

appweb

8.1.1. GPL Version 2 に基づいてライセンスされるソフトウェア

bridge-utils
busy-box
conntrack-tools
ebtables
gzip
iproute
iptables
libnetfilter_conntrack
libnetfilter_cttimeout
libnetfilter_queue
libnetfilter_queue
libnfetlink
mtd-utils
udhcp

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liblibmnl Libnl

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
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