Integrated Wireless LAN Modules with Integrated TCP/IP Stack

BP3580 / BP3591

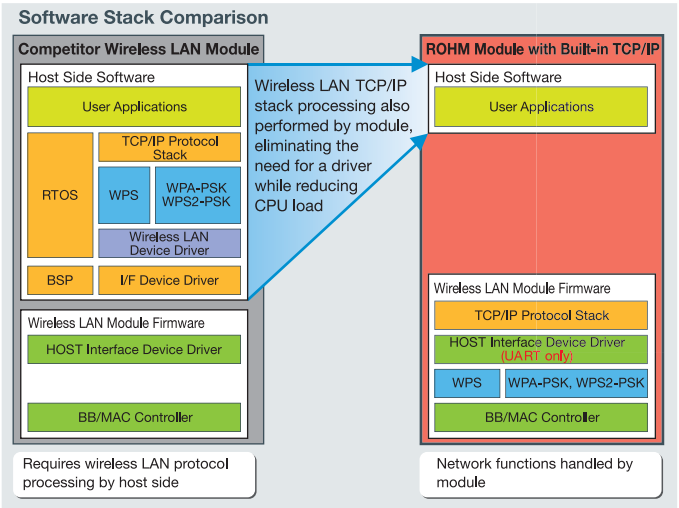
Integrated TCP/IP stack eliminates the need for device driver development

ROHM's BP3580 and BP3591 IEEE802.11b/g/n wireless LAN modules perform all LAN protocol processing, including WPS/WPA-PSK, and WPA2-PSK, significantly lightening host load. In addition, the units integrate a TCP/IP protocol stack* that eliminates the need for device driver development and enables wireless LAN functionality simply by adding application software.

*Modules with and without a TCP/IP stack feature the same firmware, resulting common hardware specifications.
Access Point (AP) functionality planned.

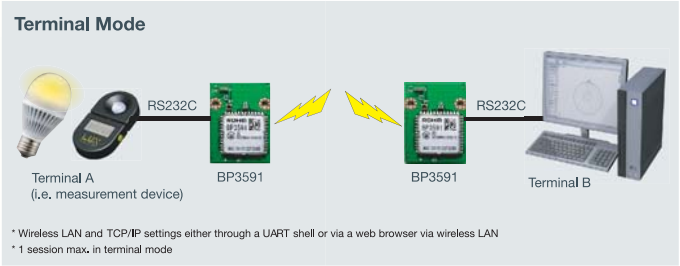
All-in-one wireless LAN modules

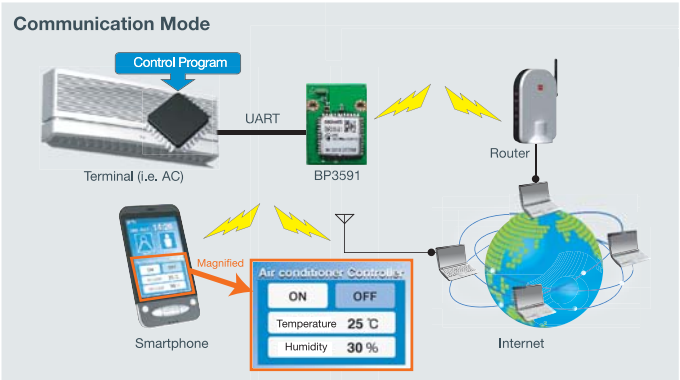
ROHM wireless LAN modules integrate all required protocols, including WPA-PSK,WPA2-PSK, and WPS. In addition, the built-in TCP/IP stack eliminates the need for a device driver, contributing to greater miniaturization.



Terminal/Communication modes

Connect the BP3580/BP3591 between terminals via RS232C to enable simple wireless communication in 'terminal mode' or opt for more advanced operation in 'communication mode'.





Compatibility

Item		Function
ARP		Supported
ICMP		Supports ping requests
DHCP Client		Supported
DNS Client		Supported
TCP	Max. No. of Sessions	4
	Server	Supported
	Client	Supported
	Connect/Disconnect Notification	Supported
	Receive Timeout Notification	Supported
UDP	Max. No. of Ports	4
	Transfer	Unicast/broadcast supported
	Receive Timeout Notification	Supported
	Other	Data source/destination designations possible
HTTP	Settings Screen	Supported

Applications

- AV equipment, industrial devices, sensor networks
- Wireless LAN devices connected to routers, including smartphones
- Devices that previously could not integrate wireless LAN due to insufficient microcontroller capability or prohibitive development costs

- Regarding Japan's Foreign Exchange and Foreign Trade Laws
  Since this product falls under the Foreign Exchange and Foreign Trade Laws, authorization for export is required. In addition, please comply with all relevant laws and regulations regarding the usage of this product overseas or by non-residents.

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