

# Integrated Wireless LAN Modules with Integrated TCP/IP Stack

## BP3580 / BP3591



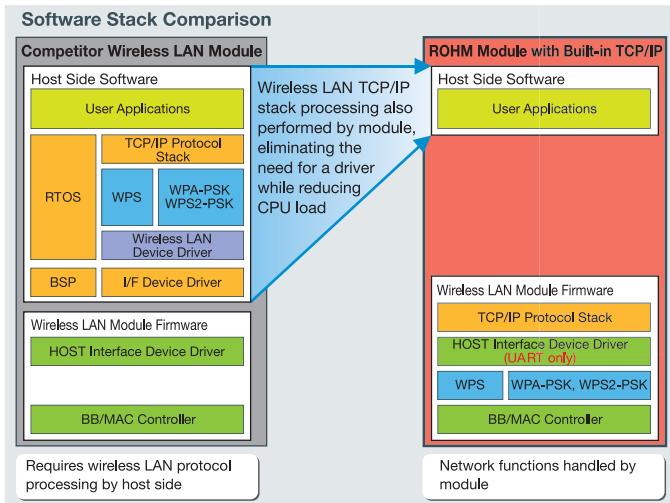
### Integrated TCP/IP stack eliminates the need for device driver development

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.



#### Compatibility

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

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The content specified in this document is correct as of 8th, Jun,2011.

#### 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

**ROHM Co., Ltd.**

21 Sainin Mizonosaki-cho, Ukyo-ku,  
Kyoto 615-8585 Japan  
TEL: +81-75-311-2121 FAX: +81-75-315-0172  
www.rohm.com

