

# Integrated Wireless LAN Modules with Integrated TCP/IP Stack

## BP3580 / BP3591



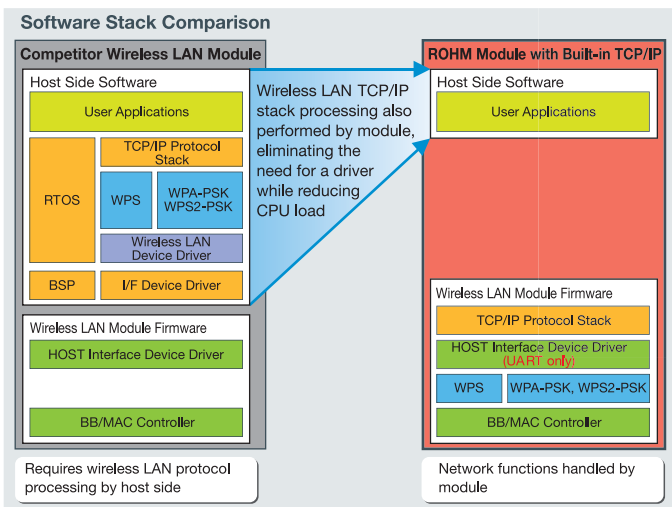
## Integrated TCP/IP stack eliminates the need for device driver development

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

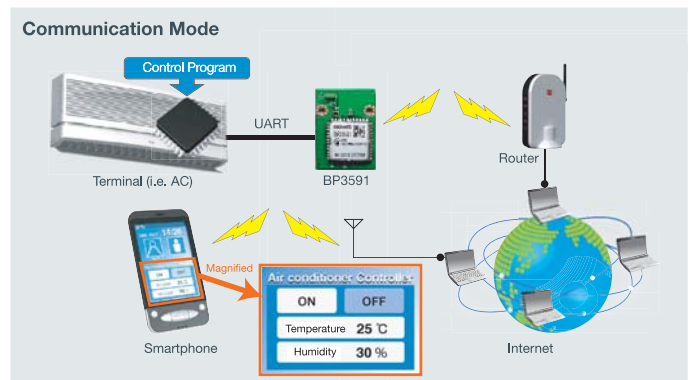
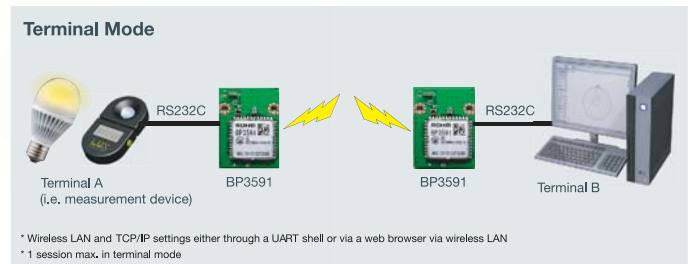
Item	Function	
ARP	Supported	
ICMP	Supports ping requests	
DHCP Client	Supported	
DNS Client	Supported	
TCP	Max. No. of Sessions	4
	Server	Supported
	Client	Supported
	Connect/Disconnect Notification	Supported
	Receive Timeout Notification	Supported
UDP	Max. No. of Ports	4
	Transfer	Unicast/broadcast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

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### ■ 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'.



### 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

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