

Integrated Wireless LAN Modules with Integrated TCP/IP Stack

BP3580 / BP3591



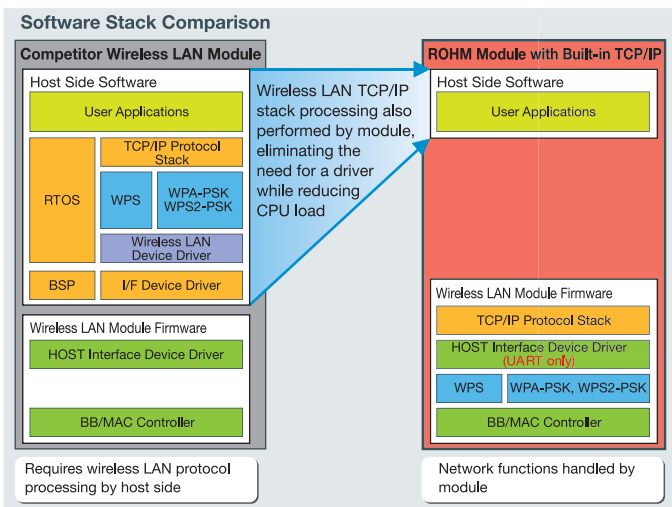
Integrated TCP/IP stack eliminates the need for device driver development

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.

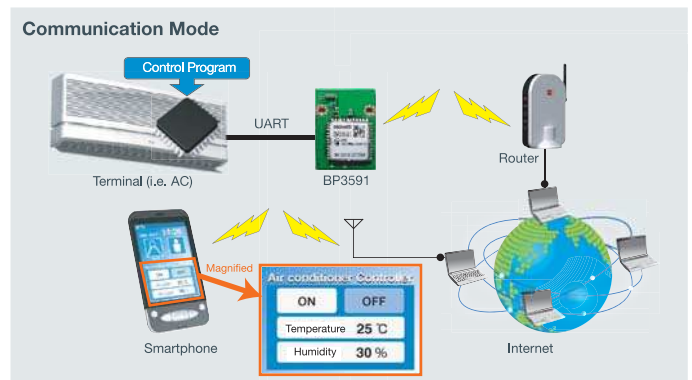
■ All-in-one wireless LAN modules

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 |
| UDP | Receive Timeout Notification | Supported |
| | Max. No. of Ports | 4 |
| | Transfer | Unicast/broadcast supported |
| | Receive Timeout Notification | Supported |
| HTTP | Other | Data source/destination designations possible |
| | Settings Screen | Supported |

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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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