

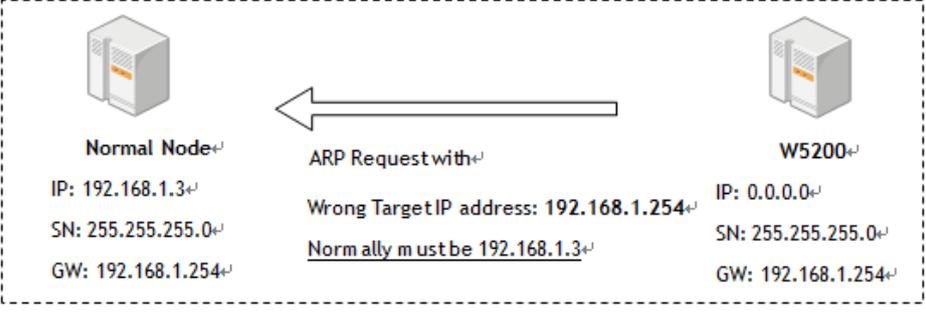
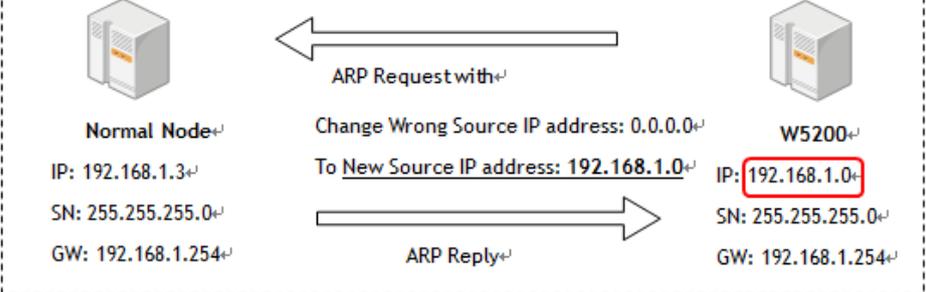
W5200 Errata Sheet

Document History

Ver 1.0.0 (FEB. 23, 2012)	First release (erratum 1)

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Erratum 1	
Phenomenon	<p>Assuming that the IP address of W5200 is "0.0.0.0" and the gateway, subnet mask is valid (not "0.0.0.0"), the W5200 set the target IP address of ARP request to the gateway IP address not the target node IP address when sends ARP request to another node. So the peer node cannot receive the ARP request from the W5200.</p>
Condition	<div style="border: 1px dashed black; padding: 10px; margin-bottom: 10px;">  <p style="text-align: center;"> Normal Node IP: 192.168.1.3 SN: 255.255.255.0 GW: 192.168.1.254 </p> <p style="text-align: center;"> W5200 IP: 0.0.0.0 SN: 255.255.255.0 GW: 192.168.1.254 </p> </div> <p>The W5200 miss calculates the sub-network location when sends the ARP request if its own IP address is "0.0.0.0". In the same condition, even if the gateway IP address is "0.0.0.0", the W5200 sends ARP request to "0.0.0.0" IP address because the W5200 sends ARP request to the gateway.</p>
Solution & Recommendation	<div style="border: 1px dashed black; padding: 10px; margin-bottom: 10px;">  <p style="text-align: center;"> Normal Node IP: 192.168.1.3 SN: 255.255.255.0 GW: 192.168.1.254 </p> <p style="text-align: center;"> W5200 IP: 192.168.1.0 SN: 255.255.255.0 GW: 192.168.1.254 </p> </div> <p>Do not set the IP address of W5200 to "0.0.0.0" to avoid this problem. If don't have valid IP address but want to send ARP request, please set the temporal IP address referring the gateway IP address and subnet mask. Normally common nodes cannot set zero IP address as its own IP address. So use this IP as a temporal IP address. For example, assuming that the gateway IP address is 192.168.1.1 and the subnet mask is 255.255.255.0, a temporal IP could be "192.168.1.0" or any unused IP could be the temporal IP address for the W5200.</p>