





# 4G Cellular Router Comparison Table

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Model Name	ICR-4103	ICR-W401	ICR-W403	ICR-W405
	<i>Hardened</i>	<i>Compact</i>	<i>Hardened</i>	<i>Advanced</i>
<b>Industrial 4G LTE Cellular Router</b>				
<b>Cellular Technology</b>	<ul style="list-style-type: none"> <li>• 4G : FDD/TDD LTE, LTE Cat4</li> <li>• 3G : WCDMA</li> <li>• 2G : GSM/EDGE</li> </ul>	<ul style="list-style-type: none"> <li>• 4G : FDD/TDD LTE, LTE Cat4</li> <li>• 3G : WCDMA</li> <li>• 2G : GSM/EDGE</li> </ul>	<ul style="list-style-type: none"> <li>• 4G : FDD/TDD LTE, LTE Cat4</li> <li>• 3G : WCDMA</li> <li>• 2G : GSM/EDGE</li> </ul>	<ul style="list-style-type: none"> <li>• 4G : FDD/TDD LTE, LTE Cat6</li> <li>• 3G : WCDMA</li> <li>• 2G : GSM/EDGE</li> </ul>
Antenna Connector	2 x SMA (MAIN + AUX)	3 x SMA (MAIN + AUX + GPS)	3 x SMA (MAIN + AUX + GPS)	3 x SMA (MAIN + AUX + GPS)
<b>Communication Interface</b>				
Ethernet	3 x 10/100 Mbps LANs 1 x 10/100 Mbps WAN	1 x 10/100 Mbps (LAN) 1 x 10/100 Mbps (WAN or LAN)	2x GbE (LAN) 1x GbE (LAN or WAN)	4x GbE (LAN) 1x GbE/SFP combo (WAN)
PoE	N/A	N/A	N/A	4x IEEE802.3 af/at
SIM Card	2	1 (Micro SIM)	2	2
Serial	1 x RS485 (D+/D-) 2 x RS232 (TXD/RXD/GND)	1 x RS232 (TXD/RXD/GND)	1 x RS232 (TXD/RXD/GND)	1 x RS232 (TXD/RXD/GND)
Console Port	RS232	RS232	N/A	RS232
I/O	2 x DI, 1 x DO (Alarm +/-)	1 x DI, 1 x DO (Non-Isolated)	2 x DI, 1 x DO	2 x DI, 2 x DO
GPS	N/A	1	1	1
<b>WiFi Technology</b>				
WiFi Interface	N/A	<ul style="list-style-type: none"> <li>• Standards: IEEE 802.11 b/g/n</li> <li>• 2.4 GHz WiFi band</li> <li>• Wireless Operation Rate: 2T2R 300 Mbps</li> <li>• Wireless Security: WPA2-PSK(AES)</li> <li>• Antenna Connector: 2 x RP-SMA</li> </ul>	<ul style="list-style-type: none"> <li>• Standards: IEEE 802.11 ac/b/g/n</li> <li>• 2.4 GHz/5G WiFi band</li> <li>• Wireless Operation Rate: 2T2R 300 Mbps</li> <li>• Wireless Security: WEP,WPA,WPA2,WPA2-PSK, IEEE802.1X</li> <li>• Antenna Connector: 2 x RP-SMA</li> </ul>	<ul style="list-style-type: none"> <li>• Standards: IEEE 802.11 ac/b/g/n</li> <li>• 2.4 GHz/5G WiFi band</li> <li>• Wireless Operation Rate: 2T2R 300 Mbps</li> <li>• Wireless Security: WPA2-PSK(AES), IEEE802.1X</li> <li>• Antenna Connector: 2 x RP-SMA</li> </ul>
<b>Temperature &amp; Power</b>				
Operating Temperature	-20 to +70 °C	-30 to +70 °C	-30 to +75 °C	-20 to +70 °C
Input Voltage	12/24 VDC (10~32 VDC)	12/24/48 VDC (9.6~60 VDC)	12/24 VDC (9 ~ 36 VDC)	1x 12VDC (power jack) 2x 8~60 VDC (Redundant Dual)
Power Consumption	< 7W	< 7W	< 14W	TBD
<b>Mechanical Construction</b>				
Dimensions (W x H x D)	62.5 x 135 x 106 mm	92 x 30 x 75 mm	200 x 39.5 x 120 mm	TBD
Weight	740 g	400 g	975 g	TBD
Installation	DIN Rail (Default) Wall Mount (Optional)	DIN Rail (Default) Wall Mount (Optional)	Wall Mount	Wall Mount
Enclosure	IP30 Metal Case	IP30 Metal Case	IP30 Metal Case	IP40 Metal Case

<b>Software Specifications</b>	<ul style="list-style-type: none"> <li>• <b>Network Protocols:</b> IPv4, IPv6, IPv4/IPv6 dual stack, DHCP server and client, PPPoE, Static IP, SNTP, ▲GPS sync time, DNS Proxy, ◆Modbus/TCP, VRRP, *MQTT, ★ECMP(for ICR-W405)</li> <li>• <b>Routing/Firewall:</b> NAT, Virtual Server, DMZ, MAC Filter, URL Filter, IP Filter, VLAN, Static Routing and RIP-1/2, IPS, Policy Route, OSPF, BGP</li> </ul>	<ul style="list-style-type: none"> <li>• <b>VPN Security:</b> • OpenVPN • IPSec • PPTP • L2TP • GRE (★Dual GRE for ICR-W405)</li> <li>• <b>Wireless Connectivity:</b> • Failover/ Roaming over/ Back up (for Dual SIM type) • Two SIM data usage control (for Dual SIM version) • Seamless multi WAN connections switch (for multi WAN version) • WAN WiFi Client (for WiFi version)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Alarm:</b> (for DI/DO version), SMS, VPN/WAN Disconnect, SNMP Trap, E-mail, TR069</li> <li>• <b>Others:</b> DDNS, QoS, ◆Virtual COM, UPnP, SMS Action, ▲GPS Track Drawing, ▲GPS TCP Push</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Management Software</b> • Web GUI for remote and local management, CLI • Dual Image firmware upgrade by Web GUI • Syslog monitor • SNMP, TR069 • Remote management via SSH v2, HTTPS • Local management via Telnet, SSH v2, HTTP/HTTPS</li> </ul>
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<b>LTE Bands/ Frequencies (MHz)</b>	<p>(1) EU Model: (Region: Europe, Africa, Middle East, Korea, Thailand, India)</p> <ul style="list-style-type: none"> <li>• FDD LTE: B1(2100), B3(1800), B5(850), B7(2600), B8(900), B20(800)</li> <li>• TDD LTE: B38(2600), B40(2300), B41(2500)</li> <li>• WCDMA: B1(2100), B5(850), B8(900)</li> <li>• GSM/EDGE: B3(1800), B8(900)</li> </ul>	<p>(2) US Model: (Region: North America)</p> <ul style="list-style-type: none"> <li>• FDD LTE: B2(1900), B4(1700), B12(700)</li> <li>• WCDMA: B1(2100), B5(850), B8(900)</li> </ul>	<p>(3) AU Model: (Region: Australia, New Zealand, South Africa, Taiwan)</p> <ul style="list-style-type: none"> <li>• FDD LTE: B1(2100), B2(1900), B3(1800), B4(1700), B5(850), B7(2600), B8(900), B28(700)</li> <li>• TDD LTE: B40(2300)</li> <li>• WCDMA: B1(2100), B2(1900), B5(850), B8(900)</li> <li>• GSM/EDGE: B2(1900), B3(1800), B5(850), B8(900)</li> </ul>	<p>(4) JP Model: (Region: Japan)</p> <ul style="list-style-type: none"> <li>• FDD LTE: B1(2100), B3(1800), B8(900), B18(850), B19(850), B26(850)</li> <li>• TDD LTE: B41(2500)</li> <li>• WCDMA: B1(2100), B6(850), B8(900), B19(850)</li> </ul>
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▲ Not to support for ICR-4103 series. \*Not to support for ICR-W403 series. ✳ All specifications are subject to change without prior notice.

◆ Not to support for ICR-W401 series

