ARG600
LTE cellular gateway

The ARG600 Wireless Cellular Gateway provides wireless monitoring and control of field devices via cellular network from a central site or a control center. The devices offer industrial quality connectivity for the TCP/IP based protocols. The ARG600 Wireless Cellular Gateway exhibits integrated communication capability and seamless integration to the SCADA systems. It is a member of ABB's Arctic product family. Using the ARG600 Wireless Cellular Gateway, Ethernet and serial devices can be attached to a TCP/IP based control system. DNP3 serial devices can be also attached to a DNP3 TCP SCADA system. In this case, the DNP3 protocol is transferred over TCP/IP communication (transparent serial gateway mode).

Wireless

AT&T

Technology	Bands	Frequencies (MHZ)
LTE	2, 4, 5, 17	1900, 1700/2100, 850, 700
WCDMA	1, 2, 4, 5, 8	2100, 1900, 1700/2100, 850, 900
GSM	GSM, EGSM DCS, PCS	850, 900, 1800, 1900

Verizon

Technology	Bands	Frequencies (MHZ)
LTE	2, 4, 13	1900, 1700/2100, 700
CDMA	0, 1, 10	800, 1900, 800

Interfaces
– LTE (AT&T, Verizon Wireless), WCDMA (AT&T), GSM (AT&T) and CDMA (Verizon Wireless) wireless
– One IEEE 802.3 10/100BASE-T port
– One RS-232 serial port
– One RS-232, RS-422 or RS-485 serial port
– Network protocols: PPP, IP, ICMP, UDP, TCP, ARP, DNS, DHCP, FTP, TFTP, HTTPS, POP3, SMTP
– Networking functions: static routing, Ethernet over TCP/IP (bridge), proxy ARP, NAT
– Automation protocol support (serial ports): device server application, serial data over TCP/IP (such as DNP3 over TCP/IP), IEC 60870-5-101 protocol support
– Antenna connector: SMA (female, 50 Ω)
– SIM card type: 2FF (Mini SIM)

Management
– Web UI via HTTPS, SSH and serial console
– Software upgrades
– Arctic Patrol client application for communication monitoring and management

Security
– Open VPN server and client
– IPsec
– SSH server and client
– L2TP
– Integrated firewall
– SSL and SSH

Environmental specifications
– Operating temperature range: -30°C to +70°C
– Storage temperature range: -40°C to +85°C
– Humidity: 5% to 85% non-condensing
– Protection class: IP30

Power
– Input power: 12 to 48 VDC (nominal)
– Power consumption: 1 to 5 W

Physical

– Dimensions: 4.25" (10.8 cm) × 1.8" (4.5 cm) × 6.9" (17.5 cm) (without antenna)
– Weight: 1.16 lbs (526.17 grams)
– Rails to enable wall or DIN rail mounting

Wireless Approvals

– Emission tests according to the test specification IEC 61850-3 (Edition 2.0 2013-12)
    – Radiated disturbance: CISPR 16-2-3
    – Conducted disturbance: CISPR 16-2-1

Safety Approvals

– CE

Protection

– Emission tests according to the test specification IEC 61850-3 (Edition 2.0 2013-12)
    – Electrostatic discharge (ESD): EN 61000-4-2 (2008-12)
    – Radiated radio frequency electromagnetic field: EN 61000-4-3 (2006-02)
    – Electrical fast transient (EFT): EN 61000-4-4 (2012-04)
    – Surge: EN 61000-4-5 (2005-11)
    – Conducted radio frequency electromagnetic field: EN 61000-4-6 (2008-10)
    – Power frequency magnetic field: EN 61000-4-8 (2009-09)

Environmental compliance

– RoHS directive 2002/95/EC
– REACH directive 2006/1907/EC

Warranty

– Three year hardware warranty
– Software and hardware maintenance plans available

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