MultiConnect™ AW

Analog-to-Wireless Converter - GPRS

The MultiConnect™ AW analog-to-wireless converter is a convenient turnkey solution that allows legacy equipment with built-in analog modems to connect to the cellular packet data or circuit switched data networks. By emulating the traditional dial-up PSTN network and using integrated or external cellular modems, the affordable MultiConnect AW converter gives new life to devices currently using traditional analog dial-up communications.

Features

- Turnkey solution with integrated quad-band GSM/GPRS modem, V.34/33.6K analog modem and SLIC for PSTN emulation
- Supports packet data, circuit switched data and PPP pass-through modes
- RJ-11 port provides dial tone, ring, busy and DTMF detection
- Supports analog modem connections from 300 baud to 33.6K bps with error correction and data compression
- Serial port configuration
- SMA antenna connector and SIM socket
- FCC, PTCRB and R&TTE certified
- Desktop or panel mounting
- Two-year warranty

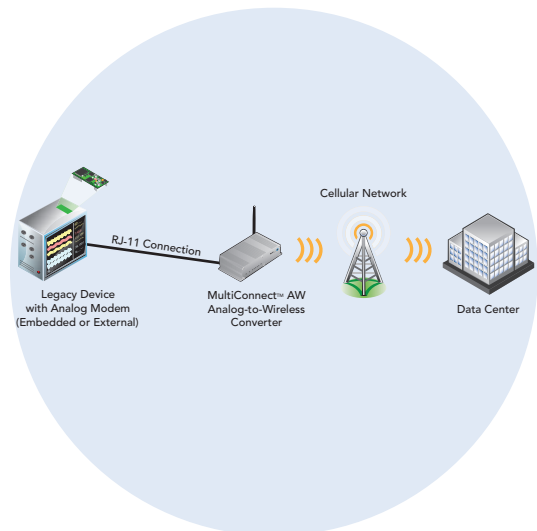## Additional Features

MultiConnect AW (MT100A2W)

- Metal chassis for industrial applications
- Outbound and inbound calling
- LEDs for visual monitoring of power, signal strength, RS-232, and phone line status
- Separate model with RS-232 port for use with external CDMA modem

MultiConnect AW (MT200A2W)

- Plastic chassis for indoor environments
- Outbound calling only
- LEDs for visual monitoring of power, signal strength, and phone line status
- No RS-232 port for use with external modem

Highlights

Applications. The MultiConnect AW converter is targeted at applications that have an integrated analog modem as part of the solution, but need to utilize the cellular network for connectivity to their host application. Some examples include:

- Automated teller machines (ATMs)
- Home healthcare monitors
- Security systems
- Credit card/POS terminals
- Kiosks
- Industrial automation/utilities

Legacy PSTN Connectivity Alternative. As it becomes more and more difficult to find analog phone lines in homes and businesses, and analog networks are being sunset, device manufacturers are faced with a problem of finding new ways to connect their legacy analog devices to newer digital communication networks. The MultiConnect AW converter seamlessly integrates with these types of devices allowing them to connect to the cellular network without requiring any changes to the remote device. Simply plug the RJ-11 cable from the existing device into the MultiConnect AW converter, enter a few configuration commands through the RS-232 serial port and you are ready to go.

Chassis. The MultiConnect AW MT100A2W converter is housed in a rugged, industrial chassis with one or two RS-232 connectors and a RJ-11 connector. It is designed for applications that require a more robust and durable product that must withstand more harsh conditions. In contrast, the MultiConnect AW MT200A2W is housed in a more stylish plastic chassis. It is more suited for indoor applications where a user wants the product to be part of the room's décor. Both models can be desktop or panel mounted. In addition, numerous LEDs provide visual monitoring of speed, link, activity, operational status and power.

Firmware Upgrades. Features flash memory, which allows for easy firmware updates. These upgrades allow the user to stay current with the latest enhancements that Multi-Tech has to offer.

Comprehensive Service and Support. The Multi-Tech commitment to service means we provide a two-year product warranty and service that includes free technical support, 24-hour web site and ftp support.

Ordering Information

Product	Description	Region
MT100A2W-G-EU	Analog-to-Wireless Converter (GPRS)	Euro/ROW
MT100A2W-G-GB/IE	Analog-to-Wireless Converter (GPRS)	GB/Ireland
MT100A2W-G-NAM	Analog-to-Wireless Converter (GPRS)	US/Can
MT100A2W-NAM*	Analog-to-Wireless Converter	US/Can
MT200A2W-G-EU	Analog-to-Wireless Converter (GPRS)	Euro/ROW
MT200A2W-G-GB/IE	Analog-to-Wireless Converter (GPRS)	GB/Ireland
MT200A2W-G-NAM	Analog-to-Wireless Converter (GPRS)	US/Can

* Requires an external Multi-Tech CDMA RS-232 style modem.

Produced in the US of US and non-US components.

Features and specifications are subject to change without notice.

Specifications

Features	MT100A2W & MT100A2W-G	MT200A2W-G
Packet Data	GPRS Class 10, PBCCH support Coding Schemes: CS1 to CS4	
Circuit Switched Data	Asynchronous, transparent & non-transparent up to 14.4K bps, MNP2 & V.42bis	Asynchronous, non-transparent up to 14.4K bps
Analog Interface	PSTN Emulation – ETSI ES 201 970	
Connectors	Power: 2.5mm miniature screw SIM: Std 1.8V/3V SIM receptacle (-G models only) Configuration: DE-9 Female Analog Modem: RJ-11 External Modem: DE-9 Male (MT100A2W only) RF Antenna: 50 ohm SMA (Female connector, -G models only)	Power: 2.5mm miniature screw SIM: Std 1.8V/3V SIM receptacle Configuration: DE-9 Female Analog Modem: RJ-11 RF Antenna: 50 ohm SMA (Female connector)
Power Requirements	9V to 32VDC @ 400mA	
	-G Models Measured @ 9VDC: Typical: 230 mA Maximum: 340 mA Peak: 1.43 A MT100A2W Model Measured @ 9VDC: Typical: 156 mA Maximum: 233 mA	Measured @ 9VDC: Typical: 172 mA Maximum: 254 mA Peak: 1.43 A
Physical Description (W x L x H)	7.0" x 2.8" x 1.2" (17.8 cm x 7.1 cm x 3.0 cm)	4.75" x 2.89" x 1.58" (12.06 cm x 7.34 cm x 4.01 cm)
Weight	11.5 oz (326 g)	5.2 oz (147 g)
Operating Temperature	-40° to +60° C UL listed @ +40° C*	
Certifications	CE Mark, R&TTE	
EMC Approvals	FCC Part 15 Class B, 22, 24; EN 55022 Class B, EN55024, EN 301 489-1, EN 301 489-7, EN301 511; RSS 132, 133, 102	FCC Part 15 Class B, 22, 24; EN 55022 Class B, EN55024, EN 301 489-1, EN 301 489-7, EN301 511; RSS 132, 133
Safety Approvals	cUL 60950-1, UL 60950-1; IEC 60950-1	
Network Approvals	PTCRB, GCF	PTCRB

* UL Listed @ 40°C. Limited by power supply. UL Certification does not apply or extend to an ambient above 40°C and has not been evaluated by UL for ambient greater than 40°C

* "UL has evaluated this device for use in ordinary locations only. Installation in a vehicle or other outdoor locations has not been evaluated by UL. UL Certification does not apply or extend to use in vehicles or outdoor applications or in ambient above 40° C."

* Optional power must be UL Listed ITE power supply marked LPS or Class 2 rated 9-32Vdc, 1.44 – 0.4A

MultiTech®
Systems