M₂M/alula

Connect Family BAT-Mini™ Communicator

BAT-Mini is a device that connects to security panels to deliver central station monitoring, interactive services, and remote panel configuration.

Scan QR for most up to date manual, features, and compatibility

Alarm Panel Compatibility Guide
alula.com/communicators/bat-mini

Features

- 5G CAT-M1 cellular communicator
- Dual SIM: AT&T and Verizon
- Wi-Fi broadband
- Dial Capture interface, supporting Ademco Contact ID
- Keybus integration with selected panels
- Keyswitch with Arm/Disarm status via I/Os
- Supply Voltage: +10 to +17 VDC
- Power Consumption: Nominal 15 mA, Peak 200 mA
- Compact Dimensions: 5.125" x 3.625" x 1"
- Weight: 3.75 oz
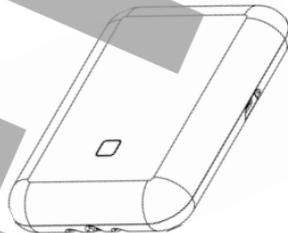
Warnings

1. WARNING: The wiring should be done only when the panel and the communicator are disconnected from power!
2. WARNING: PRIMARY USE ONLY – NOT TO BE USED WITH LANDLINE!
3. Having a phone line connected will damage the unit!
4. Connect + and – of the communicator to a max of 12V - 15V DC power supply.
5. WARNING: USB PORT TO BE USED WITH M2M/ALULA ADD-ON MODULES ONLY.

Become an M2M/Alula dealer

If you are not a registered M2M/Alula dealer, please visit **www.alula.com/pro-signup** to register, or call 1.888.88.ALULA

Create the Account

1. Create customer account on www.alulaconnect.com and enter your customer's required information such as username, password, etc.
2. Register hardware by entering the MAC ID and CRC found on the inside and back cover of BAT-Mini and configure device information
3. Set customer notification preferences
4. Add Central Station connection type, Caller ID number and account number

Configure the Alarm Panel

Refer to the panel's installation manual to configure the following options:

- Enable the PSTN dialer of the panel
- Select DTMF mode (Tone Dialing)
- Select Contact ID Full communication format
- Enter a telephone number for dialing (you can use any number, e.g. 9999999)
- Enter a 4-digit account number in the panel

Find configuration guides for popular panels at alula.com/communicators/bat-mini/

Remote Arming/Disarming via Keybus for supported Honeywell, DSC, Napco and Interlogix Alarm Panels (Optional)

Panel compatibility list for Keybus integration is available at alula.com/communicators/bat-mini Wire the device to the panel according to the Keybus wiring diagram (Page 2)

- **Honeywell panels ONLY:** Program an alpha keypad address on the panel for each partition in use, starting from address 21 to 28 (21 for partition 1, 22 for partition 2, etc.)
- The addresses should be reserved for the M2M/Alula communicator use only
- Once the panel and BAT-Mini are online, navigate to the Communications tab of AlulaConnect, enter the panel's installer code, and initiate Device Action > Sync Panel Data

- **Napco panels ONLY:** Program a Wizard keypad address on the panel for each partition in use, starting from keypad 2 (21 for partition 1, 22 for partition 2, etc.).
- The address should be reserved for the M2M/Alula communicator only
- Having a physical keypad on the first address is mandatory

Remote Arming/Disarming via Keyswitch (Optional)

- Configure a zone as a momentary keyswitch (refer to the panel's installation manual).
- Configure a PGM output of the panel to activate (switch to ground), when the panel is armed, and to deactivate, when disarmed (refer to the panel's installation manual)
- Wire the device to the panel according to the Keyswitch wiring diagram (Page 2)
- For panels that don't have a status PGM, the status can be received through the OPEN/CLOSE reporting

Guidelines for configuring the keyswitch and the output for popular panels are available at alula.com/communicators/bat-mini/

Initial pairing prodecure for Remote Arming/Disarming via Keyswitch:

- Enable Open/Close reporting (at least during the initial pairing procedure).
- Log in to the Alula App and press Sync with Panel
- Ask the end user to enter a Remote PIN code of his/her choice
- Disarm (or Arm) from the keypad within 2 minutes to complete the pairing

Wiring the Communicator to the Alarm Panel

			Alarm Panel		BAT-Mini
12-15V DC Power	↔	+	GND		GND
Supply Ground	↔	GND	+12V AUX		+
RING	↔	RING	RING		RING
TIP	↔	TIP	TIP		TIP
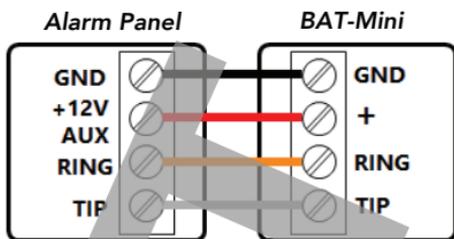
Keybus Wiring*

Honeywell Vista and DSC Power Series Panels

Green (Data IN)	↔	G / IN	Green (Data In)		G / IN
Yellow (Data Out)	↔	Y / IN	Yellow (Data Out)		Y / IN

Napco Panels

RX (Yellow)	↔	G / IN	RX (Yellow)		G / IN
TX (Green)	↔	Y / IN	TX (Green)		Y / IN
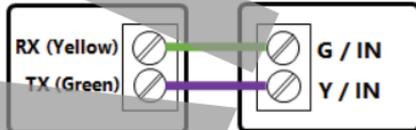
Interlogix NX Panels

DATA	↔	G / IN	DATA		G / IN
DATA	↔	Y / IN			Y / IN

Keyswitch Wiring*

Armed Status Output	↔	G / IN	PGM		G / IN
Keyswitch Zone	↔	Y / IN	Keyswitch Zone		Y / IN
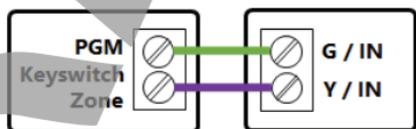
*Optional – wire only if interactive features will be used. Panel compatibility list is available at alula.com/communicators/bat-mini/

LED Indicators

- Slow flashing – trying to establish connection
- Constantly On – connection established at good signal level
- Constantly On, blinking every 5 sec. – connection established at low signal level
- Fast flashing – transferring data

Troubleshooting the DTMF Communication

If you have issues receiving the events, try the following additional panel settings:

- Disable "Telephone line monitoring"
- Disable "Wait for dial tone" option
- Use "A" instead of "0" in the account number
- If there is more than one partition, enter an account number for each partition

For certain panels, you might need to also specify an account number for the main partition 0 (sometimes referred as system account number)