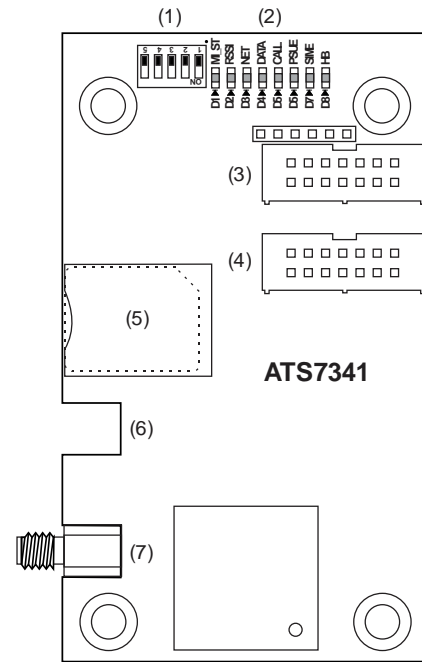
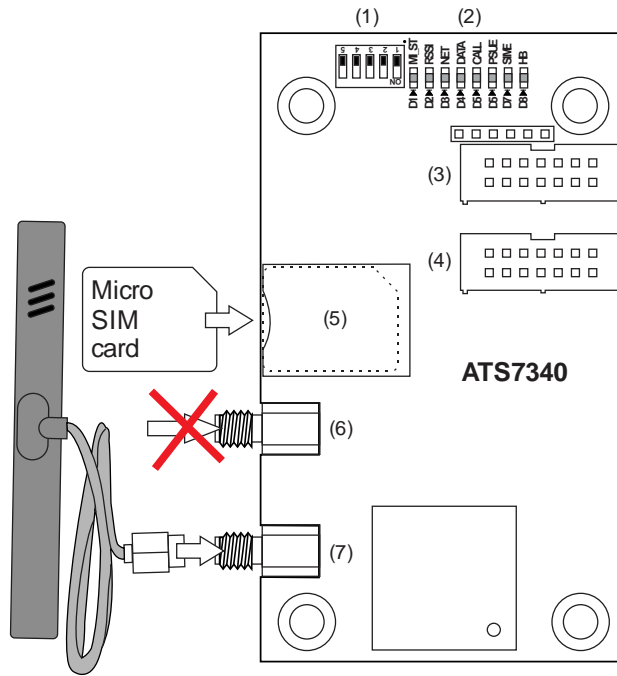


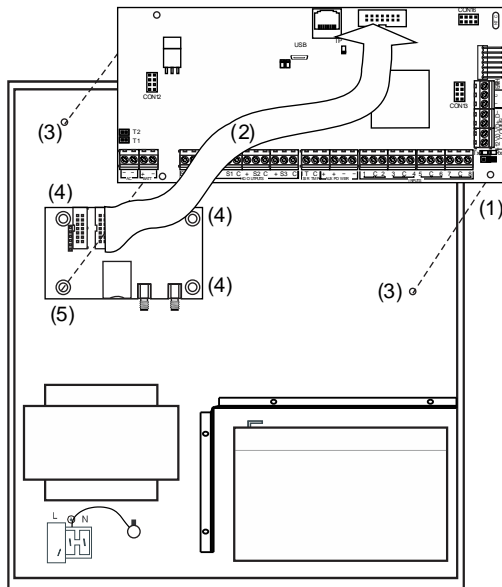
ATS734x 4G Module Installation Sheet

EN

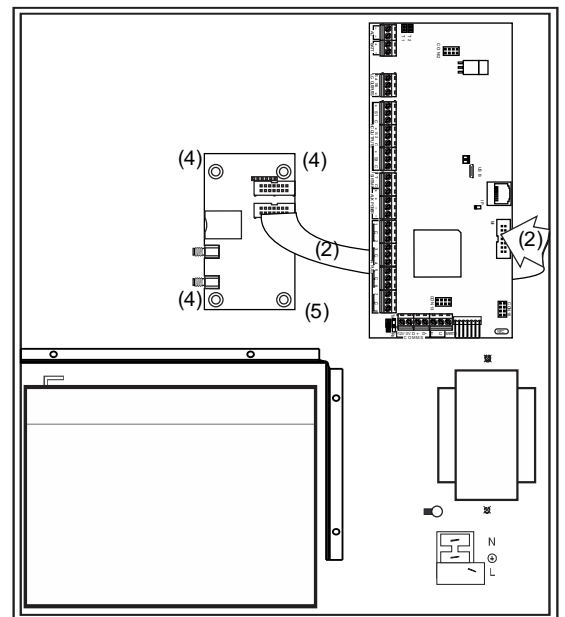
1: ATS734x



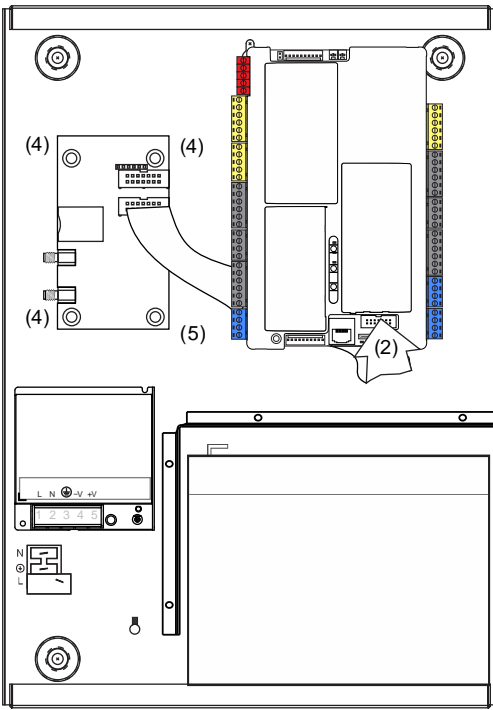
2: SM housing



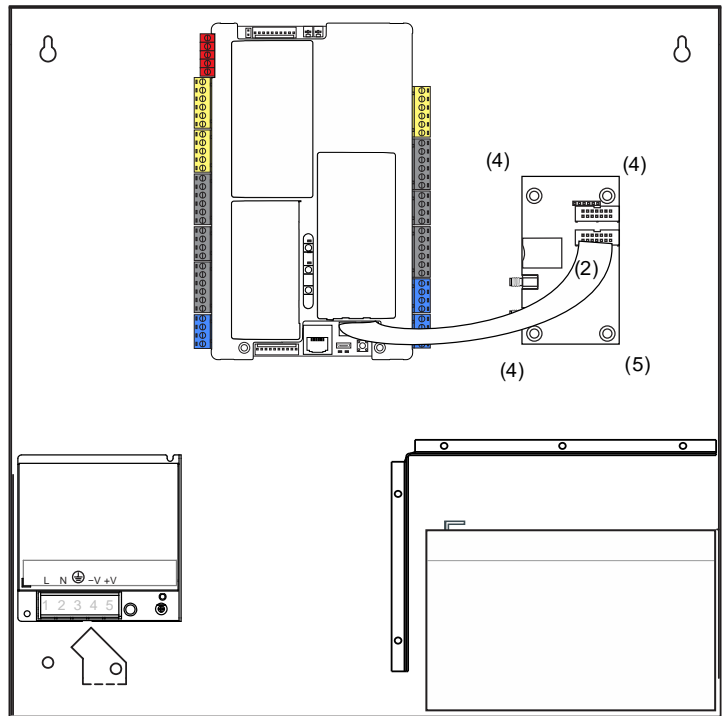
3: MM housing



4: MM+ housing



5: LM housing



EN: Installation Sheet

Description

ATS734x series communication modules enable alarm reporting for the ATsx500A and ATsx700 control panels.

- ATS7340 enables reporting via 2G/3G/4G. When connected to ATsx500, it supports all reporting formats available through PSTN, including voice reporting and audio listen-in. When connected to ATsx700, all reporting formats available through PSTN are fully functional, except voice reporting and audio listen-in.
- ATS7341 enables reporting via 2G and 4G. It is fully compatible with ATsx500 and ATsx700 and supports many alarm reporting formats (see panel manual for details). ATS7341 does not support MMS functionality and analogue audio, including voice reporting and audio listen-in, regardless of the panel type.

ATS734x can be used for primary reporting as well as backup reporting (using multiple central stations).

ATS734x can establish a reliable connection for remote up/downloading to and from the control panel.

Important notes

- ATS734x-SIM is an ATS734x communication module with a preinstalled UltraSync SIM card. ATS734x-SIM modules and its SIM card can only be used for UltraSync service, and the system must be registered in the UltraSync portal before use. Registering the SIM card in the UltraSync portal is linked to a monthly service fee.

Using a different SIM card than an UltraSync in the ATS734x-SIM module is impossible. ATS734x-SIM modules are locked to UltraSync SIM cards only.

Carrier reserves the right to check if the Carrier UltraSync SIM card is used in the correct modem. Improper use of the modem or SIM card can result in the product stopping operating with the UltraSync infrastructure.

- Disable the PIN code request on your SIM card (via any mobile telephone).
- The product must be used only with the supplied antenna, or other external antenna supplied by Carrier.
- Make sure the antenna itself is placed outside of the control panel housing.
- The antenna must be mounted on an appropriate distance from people, e.g., more than 200 mm.
- For up/downloading via the 4G module use a SIM card that has data enabled.
- ATS734x cannot be connected remotely using the ATS7072 expander kit.
- This device can be installed only by a qualified electrician or other suitable trained and qualified person.
- Keep your system up to date. Regular firmware updates often include performance improvements and bug fixes, which can help address connectivity issues.
- Adjust the Line fault delay timer from 0 seconds to 3 minutes (adjustable from 0 to 4:15). This will avoid the notifications of the short interruptions that occur daily in mobile networks. **Note:** Do not apply this in certified installations.
- Keep the network operator field blank in the control panel when using UltraSync SIM Cards or any other roaming SIM cards. To prevent conflicts between the SIM card and the panel. By doing so, the SIM card will automatically choose the best available network for optimal connectivity.
- Set the correct APN name. **Caution:** Make sure to set the correct Access Point Name (APN) for the SIM card being

used. This ensures proper communication between the AT5734x device and the network.

For AT5734x-SIM with an UltraSync SIM card, provided together with the unit, use *internet.swir* or *ultrasync.swir* (blue SIM cards).

- Set the GPRS disconnection time to 23:59. This setting will increase stability and ensure a continuous connection to the network.

Caution: Ensure that there is only one GSM/GPRS dialler (AT57320, AT5734x, TDA7400, TDA7400NG, or AT57500) installed on the MI bus, to avoid any configuration conflicts.

Mounting location

AT5734x must be mounted inside an ATS panel housing.

WARNINGS

- Disconnect the mains power before opening the cabinet. Disconnect the AC mains plug from the AC mains wall socket, or disconnect the mains using the dedicated circuit breaker.
- Disconnect the battery (when applicable).

Mounting the unit

Figures 2 to 5: AT5734x Mounting examples

- (1) Screws
- (2) Flat cable
- (3) Extension pillars with the plastic rings on existing pillars
- (4) Screws on clips
- (5) Screws on extension pillars

Mounting AT5734x into small metal (SM) control panel housings

See Figure 2.

1. Remove the screws (item 1) and lift off the control panel PCB.
2. Place the extension pillars with the plastic rings on top of the existing pillars (item 3).
3. Place the clips in the square holes (item 4).
4. Mount AT5734x using the screws and extension pillars (item 5).
5. Place the ATS control panel PCB back into its original position.

Mounting AT5734x into medium and large metal control panel housings

See Figure 3.

1. Place the clips in the square holes (item 4). Use metal pillars when available.
2. Mount AT5734x using screws.

Connecting the 4G module

WARNING: Disconnect the AC mains plug from the AC mains wall socket.

1. Connect the flat cable (item 2 in Figures 2 to 5) between the control panel (MI connector) and AT5734x (connector CON2 or CON3).
2. Connect the antenna to the 4G module. In case of AT57340, make sure you are using the right connector. See Figure 1.
Note: Use the antenna provided with the module to get the best signal strength.
3. Insert the SIM module into the SIM socket (SIM).
4. Apply power to the control panel and to the 4G module.
5. Check the field strength (RSSI LED). When required, move the antenna to get the best signal.

Operating instructions

Refer to *AT5x500A Advisor Advanced Installation and Programming Manual* and *Axon Control Panel Installation and Programming Manual* for details on:

- Operating instructions for all functionalities
- Available keys, codes, and related details
- User programmable functions

Testing the 4G module

To check the correct reporting to the Central Station, we recommend you create an event (for example, a test call, an opening, or a closing event), and to ensure that the Central Station receives this event successfully.

Description of the AT5734x

Figure 1

Item	Description	Function
(1)	DIP switch	See Table 1 below.
(2)	LEDs	Status LEDs.
(3), (4)	CON3, CON2	MI bus, system connector. Connects to the ATS panel.
(5)	SIM	SIM socket. Holds GSM micro-SIM card.
(6)	ANT2	Do not use.
(7)	ANT1	SMA antenna connector.

DIP switch

The DIP switch provides the functionality described in Table 1 below.

Table 1: DIP switch description

No.	Name	Function	Default value
1.	TEST	Factory test mode	Off
2.		Reserved	Off
3.	FU	Firmware upgrade	Off
4.	MFU	Modem firmware upgrade	Off

No.	Name	Function	Default value
5.		Reserved	Off

LEDs

In the following LED descriptions, a flash is defined as 250 ms on and 250 ms off. Groups of flashes are separated by 1 s off.

MI_ST (D1)

The MI_ST LED (green) displays the status of the communication interface to the panel.

Table 2: MI_ST LED status

Duty cycle	Rate ($\pm 10\%$)	Description
100%	—	Power on (in case none of the cases below are valid)
0%	—	No power or power failure
25%	1 s	Initialization OK, waiting for communication
50%	1 s	Everything OK, communication running
75%	500 ms	Hardware failure
50%	250 ms	Failure in communication, waiting for reinitialization

RSSI (D2)

The RSSI LED (green) indicates the field strength or signal strength found by the 4G module. The number of flashes indicates the level.

Table 3: RSSI LED status

Flashes	Description
Off	No field strength (no network detected)
1 to 5	Field strength indication from poor (1) to excellent (5)

NET (D3)

The NET LED (green) indicates the status of the network. The meaning of the number of flashes is described in Table 4 below.

Table 4: NET LED status

Flashes	Description
Off	Not registered
On	Registered to home network
1	Registered to roaming network
2	Searching network
3	Denied
4	Unknown

DATA (D4)

The DATA LED (green) indicates the status of the GPRS/LTE communication.

Table 5: DATA LED status

State	Description
Off	GPRS/LTE is not available

State	Description
On	GPRS/LTE is available, connection established
Blink	GPRS/LTE is available, connection established, sending data
Flash	GPRS/LTE is available, connection not established

CALL (D5)

The CALL LED (yellow) indicates status of the audio information transmitted to the central station.

Table 6: CALL LED status

Duty cycle	Rate ($\pm 10\%$)	Description
100%	—	Connected
0%	—	Offline
10%	1 s	Connecting
50%	1 s	Ringling present

PSUE (D6)

The PSUE LED (red) indicates the status of the power supply.

Table 7: PSUE LED status

Duty cycle	Rate ($\pm 10\%$)	Description
Off	—	Power supply okay
50%	1 s	MI bus voltage low
On	—	Power supply problem

SIME (D7)

The SIME LED (red) indicates the status of the SIM card. The meaning of the number of flashes is indicated in Table 8 below.

Table 8: SIME LED status

Flashes	Description
Off	Ready
1	PIN error
2	PUK error
3	PIN 2 error
4	PUK 2 error
5	SIM blocked from network
On	SIM not present

HB (D8)

The HB LED (red) indicates that the device is running.

Table 9: HB LED status

Duty cycle	Rate ($\pm 10\%$)	Description
Off	—	ATS734x is not operational
50%	1 s	ATS734x is running
On	—	ATS734x is not operational

Alarm transmission requirements

All 4G module faults are logged in the control panel and indicated by the fault LED and corresponding fault messages on the keypad display.

The transmission between appropriate central stations and the 4G module is constantly monitored by sending presence (heartbeat) messages to central station receivers.

To program the required polling time in the control panel, go to menu "Heartbeat time" and set a value from every second (00:00'01) to every day (23:59'59).

In case of the dual path reporting, if the primary CS communication fails, the backup CS heartbeat time is switched from normal to frequent according to a value configured in the menu "Frequent HB time".

For programming details, see control panel programming manual. The required settings for each ATS category are listed in Chapter "Regulations", section "Transmitter polling interval requirements".

Substitution and information security

- Triple-DES, Symmetric encryption algorithms are used with key length 192 bits.
- In case hash functions are used, they give a minimum of 128 bits output.
- Regular automatic key changes are used with machine generated randomized keys.

Specifications

Compatibility	ATSx500A with firmware version MR4.4 or later Axon with firmware version MR1.0 or later
Power supply (via ribbon cable from control panel)	9 to 14 V \pm
Current consumption (at 13.8 V \pm \pm 5%):	
MI bus (standby)	<100 mA
MI bus (GSM online)	120 mA
MI bus (2G/3G/4G max.)	200 mA
Wireless operating frequency	703–748 MHz (B28) 832–862 MHz (B20) 880–915 MHz (B8, EGSM-900) 1710–1785 MHz (B3, DCS-1800) 1920–1980 MHz (B1) 2500–2570 MHz (B7) 824–849 MHz (B5, GSM-850): ATS7341 only
Maximum power output	33 dBm
Dimensions	86.5 x 50.0 mm
Battery type and max. capacity	See the appropriate control panel installation manual
Weight	35 g
Temperature	-10 to +55°C
Relative humidity	<95% noncondensing
Serviceable parts	There are no serviceable parts in ATS734x
SPT type	EN 50131-10:2014 Type Y

Regulatory information

Manufacturer	Carrier Fire & Security Americas Corporation, Inc. 13995 Pasteur Blvd Palm Beach Gardens, FL 33418, USA Authorized EU manufacturing representative: Carrier Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands
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Certification	EN 50131 Security Grade 2 in Grade 2 control panel Security Grade 3 in Grade 3 control panel Environmental Class II
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This product was tested and certified to EN 50136-2:2013 for Alarm transmission system performance SP5 for reporting over GPRS to the OH or UltraSync Receiver.

This product was tested and certified to EN 50136-2:2013 for Alarm transmission system performance DP4 for backup reporting over GPRS to the OH or UltraSync Receiver.

Alarm transmission class: Pass-through operation mode.

Carrier Fire & Security hereby declares that this device is in compliance with the applicable requirements and provisions of all applicable rules and regulations, including but not limited to the Directive 2014/53/EU. For more information see: firesecurityproducts.com

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2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: recyclethis.info

Product documentation	Please consult the following web link to retrieve the electronic version of the product documentation.
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This link will guide you to the EMEA regional contact page. On this page you can request your login to the secured web portal where all manuals are stored.

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