



Telefire Fire & Gas Detectors Ltd.

MCOM Card

Installation Manual



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Propriety information of
TELEFIRE
Rev. 1.1; April 2022

Revision Table					
Date	Revision	Description	Written by	Reviewed by	Approved by
March 2022	1.0	Initial release	Motti Drori / A. Holtzman	Boris Gitelman	Dov Zelig
April 2022	1.1	Text, figures and format adaptations	Motti Drori / A. Holtzman	Boris Gitelman	Dov Zelig

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Note

Do not attempt to install, operate, maintain or inspect this product until you have read through this instruction manual and appended documents carefully and can use the equipment correctly. Do not use this product until you have a full knowledge of the equipment, safety information and instructions.





1 Introduction

The MCOM Module Is Multi communication card that convert the data of the 7000 FACP to the cloud over one of the following protocols:

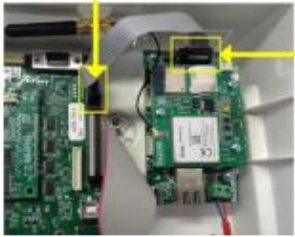

1. Cellular;
2. WiFi
3. TCP/IP.

The module is powered by 24 Vdc and connected to the FACP by flat cable from COM 1 or Com 2 in the panel.



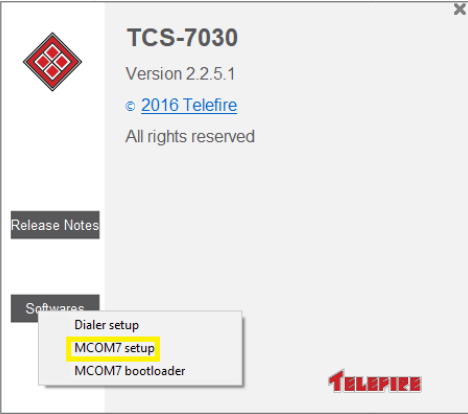



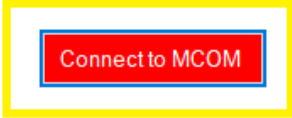

2 Compatibility

<p>1 MCOM card is compliant with 7000 series:</p> <ul style="list-style-type: none"> ○ ADR-7000 ○ SAVER-7000 ○ Guard-7 <p>The card installation requires FACP FW version 5.66 or higher.</p>	<p>2 Disconnect the panel from all power sources (batteries and mains voltage)</p> 
<p>Comaptibility</p>	<p>Preparation</p>
<p>3 Insert micro SIM, 3G and up, to the top card. The sim card mode is relevant to celular installtion only</p>   <p>The truncated corner has to be placed on the bottom, on the right</p>	<p>4 Install MCOM Module on the top right corner of the panel</p> 
<p>Cellular connection</p>	<p>Connections phase 1</p>

3 Connectivity

<p>5 Connect the flat cable – COM1 connector from the MCOM Module to the COM2 connector on the panel's main board</p> <p>COM2 connector on the main card of the panel</p>  <p>COM1 connector on the MCOM assembly</p>	<p>6 Connect 24VDC supply from the panel's 24VDC output to the 24V connector on the MCOM plus and minus contacts, respectively</p> <ul style="list-style-type: none"> - Connect the backup batteries to the panel, and then connect the mains voltage
<p>Connections phase 2</p>	<p>Power Supply Voltages</p>
<p>7</p> <ol style="list-style-type: none"> 1. Press the Menu (menu) key to enter the system settings 2. Enter password (6 digits) 3. Select 1 - System features 4. Select 1 - System configuration 5. Select 1 and then 3 - COM (communication) 	<p>8</p> <ol style="list-style-type: none"> 6. Use the arrows to change the COM2 settings to a network card – TCP/IP, make sure that the Baud rate is 115,200:  <ol style="list-style-type: none"> 7. Press Save. 8. Press Exit.
<p>COM settings on the panel</p>	<p>COM settings on the panel</p>

4 COM Settings

<p>9 Verify that the PC is connected to the internet. Connect a USB cable between the PC and the USB connector on the MCOM card.</p>  <p>USB connector</p>	<p>10 Check that you have the following data available:</p> <p>A. For TCP/IP communication</p> <ul style="list-style-type: none"> - Static IP address of the card - Gateway address - Mask address <p>B. For WiFi communication:</p> <ul style="list-style-type: none"> - WiFi name - WiFi password <p>Note: in cellular communication, no preliminary data are necessary – the supplier has to provide 3G SIM card.</p>
<p>Communication connection</p>	<p>Beginning to configure the MCOM setup as preparation for programming</p>
<p>11</p> <ol style="list-style-type: none"> 1. Run the MCOM Prog software from the TCS-7030 software. 2. Select the main menu (top right button)  3. Select About < Additional Software < MCOM Setup 	<p>12 The initial status is disconnected</p>     
<p>Connecting to PC & configure the MCOM</p>	<p>Connecting to PC & configure the MCOM</p>

5 PC Connection

<div style="display: flex; justify-content: space-between;"> <div style="background-color: black; color: white; padding: 5px; border-radius: 5px; width: 40px; text-align: center;">13</div> <div> <p>1. To change the status, press</p> <div style="border: 1px solid red; background-color: red; color: white; padding: 2px; display: inline-block; margin: 5px 0;">Connect to MCOM</div> <p>2. Insert Customer Id</p> <p>Mac Address <input style="width: 100px;" type="text" value="70-B3-D5-2E-84-6C"/></p> <p>Mcom Version <input style="width: 100px;" type="text" value="61.17.1.19"/></p> <p>Customer Id * <input style="width: 100px; border: 2px solid yellow;" type="text"/></p> <p>Installer Id <input style="width: 100px; border: 2px solid yellow;" type="text"/></p> <p>Installer Id will be filled in automatically</p> </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="background-color: black; color: white; padding: 5px; border-radius: 5px; width: 40px; text-align: center;">14</div> <div> <p>Fill In the following Data</p> <ol style="list-style-type: none"> In the Site Name field, enter the site name (e.g.: Israel Plants) In the Site Address field enter the site location (e.g., 1 Haharutzim St., Petach Tikva) MCOM Description <p>Site Name * <input style="width: 100px;" type="text"/></p> <p>Site Address * <input style="width: 100px;" type="text"/></p> <p>MCOM Description * <input style="width: 100px;" type="text"/></p> </div> </div>
<i>MCOM Customer Id Setting</i>	<i>Mcom Config</i>

6 Configurations

<div style="display: flex; justify-content: space-between;"> <div style="background-color: black; color: white; padding: 5px; border-radius: 5px; width: 40px; text-align: center;">15</div> <div> <p>Choose connectivity Mode from the following Options:</p> <div style="border: 1px solid blue; padding: 5px; margin: 5px 0;"> <div style="background-color: #e0e0e0; padding: 2px;">Bridge</div> <div style="background-color: #0070c0; color: white; padding: 2px;">Bridge</div> <div style="padding: 2px;">IOT -Net</div> <div style="padding: 2px;">IOT -WiFi</div> <div style="padding: 2px;">IOT -Cellular</div> </div> <ol style="list-style-type: none"> Bridge – Point to point static TCP/IP address Net – Static / Dynamic Ip address WiFi – Wireless Internet connection Cellular </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="background-color: black; color: white; padding: 5px; border-radius: 5px; width: 40px; text-align: center;">16</div> <div> <p>Set Static IP address to the Bridge mode include default gateway and subnet mask.</p> <p>Make sure port 9 is open and communication baud rate is 115,200</p> <p>Conectivity Mode <input style="width: 100px;" type="text" value="Bridge"/></p> <p>Type <input style="width: 100px;" type="text" value="Static"/></p> <p>IP <input style="width: 100px;" type="text" value="192 . 168 . 1 . 99"/></p> <p>Gateway <input style="width: 100px;" type="text" value="192 . 168 . 1 . 254"/></p> <p>Mask <input style="width: 100px;" type="text" value="255 . 255 . 255 . 0"/></p> <p>TCP-Port <input style="width: 100px;" type="text" value="9"/></p> <p>Baud Rate <input style="width: 100px;" type="text" value="115200"/></p> </div> </div>
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Configure the MCOM | **Configure Bridge Mode**

17 **Set Net Mode**
Net mode is TCP/IP connection of the MCOM Card to the internet network

Option 1 Static IP
Set Static IP address to the Bridge mode include default gateway and subnet mask, make sure the Ip address is connect to the internet

Connectivity Mode: IOT Net
Type: Static
IP: 192 . 168 . 1 . 99
Gateway: 192 . 168 . 1 . 254
Mask: 255 . 255 . 255 . 0
TCP-Port: 9
Baud Rate: 115200

Option 2 Dynamic IP
The NAC will set the DHCP Address

Connectivity Mode: IOT Net
Type: Dynamic
IP:
Gateway:
Mask:
TCP-Port: 9
Baud Rate: 115200

IP Settings will be gray

18 **Choose WiFi Network from the combo Box:**

Connectivity Mode: IOT WiFi

WiFi Name: [dropdown menu]
WiFi Password: [password field]

Insert WiFi password, if there is no password leave the box empty

Configure Cellular Mode

19 For cellular mode select the cellular mode in the combo box.

[dropdown menu showing: Bridge, IOT-Net, IOT-WiFi, IOT-Cellular]

Site Location

20 Double click in order to set the site location on the map

<p>Configure Net Mode</p>	<p>Configure WiFi Mode</p>

7 Definitions

<p>21 Choose the number of Fire alarm control panel on site (from 1 to 32 relevant to ADR-7000 only. For Saver-7000 and Guard-7 the number will be 1)</p> <table border="1"> <tr> <td>Panel 1</td><td>7000</td><td>Panel 11</td><td>None</td><td>Panel 21</td><td>None</td><td>Panel 31</td><td>None</td></tr> <tr> <td>Panel 2</td><td>None</td><td>Panel 12</td><td>None</td><td>Panel 22</td><td>None</td><td>Panel 32</td><td>None</td></tr> <tr> <td>Panel 3</td><td>None</td><td>Panel 13</td><td>None</td><td>Panel 23</td><td>None</td><td></td><td></td></tr> <tr> <td>Panel 4</td><td>None</td><td>Panel 14</td><td>None</td><td>Panel 24</td><td>None</td><td></td><td></td></tr> <tr> <td>Panel 5</td><td>None</td><td>Panel 15</td><td>None</td><td>Panel 25</td><td>None</td><td></td><td></td></tr> <tr> <td>Panel 6</td><td>None</td><td>Panel 16</td><td>None</td><td>Panel 26</td><td>None</td><td></td><td></td></tr> <tr> <td>Panel 7</td><td>None</td><td>Panel 17</td><td>None</td><td>Panel 27</td><td>None</td><td></td><td></td></tr> <tr> <td>Panel 8</td><td>None</td><td>Panel 18</td><td>None</td><td>Panel 28</td><td>None</td><td></td><td></td></tr> <tr> <td>Panel 9</td><td>None</td><td>Panel 19</td><td>None</td><td>Panel 29</td><td>None</td><td></td><td></td></tr> <tr> <td>Panel 10</td><td>None</td><td>Panel 20</td><td>None</td><td>Panel 30</td><td>None</td><td></td><td></td></tr> </table>	Panel 1	7000	Panel 11	None	Panel 21	None	Panel 31	None	Panel 2	None	Panel 12	None	Panel 22	None	Panel 32	None	Panel 3	None	Panel 13	None	Panel 23	None			Panel 4	None	Panel 14	None	Panel 24	None			Panel 5	None	Panel 15	None	Panel 25	None			Panel 6	None	Panel 16	None	Panel 26	None			Panel 7	None	Panel 17	None	Panel 27	None			Panel 8	None	Panel 18	None	Panel 28	None			Panel 9	None	Panel 19	None	Panel 29	None			Panel 10	None	Panel 20	None	Panel 30	None			<p>22 In order to complete the process, click done</p> <p>Wait to the green pop-up</p> <p>Configuration saved successfully to card</p>
Panel 1	7000	Panel 11	None	Panel 21	None	Panel 31	None																																																																										
Panel 2	None	Panel 12	None	Panel 22	None	Panel 32	None																																																																										
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<p>Definition the site architecture</p>	<p>Download</p>																																																																																

► Please dispose WEEE (Waste of Electronic & Electric Equipment) only following national or local regulations after being scrapped or replaced.



Restriction of Hazardous Substances (RoHS) in electrical & electronic equipment and various plastic components. They help keep electronics, hazardous and plastic materials out of the waste stream, the US Environmental & Protection Agency (EPA) offers a list of companies that provide recycling options for electronics, hazardous and plastic materials.