



**Seeker MCA III
Mobile Communications Adapter
Installation Guide**



Notice

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Federal Communications Commission (FCC) Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by VIAVI could void the user's authority to operate the equipment.

CAUTION:

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The End user must follow the specific operating instructions for satisfying RF exposure compliance.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Industry Canada Requirements

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Device operation in the band 5150–5250 MHz is only for indoor use.

Dans la bande de fréquence 5150–5250 MHz, l'utilisation du produit doit être uniquement en intérieur.

Japan Radio Law

The GITEKI mark can be found on the label on the unit.

EU WEEE and Battery Directives

This product, and the batteries used to power the product, should not be disposed of as unsorted municipal waste and should be collected separately and disposed of according to your national regulations.

VIAVI has established a take-back process in compliance with the EU Waste Electrical and Electronic Equipment (WEEE) Directive, 2012/19/EU, and the EU Battery Directive, 2006/66/EC.

Instructions for returning waste equipment and batteries to VIAVI can be found in the WEEE section of the [VIAVI Standards and Policies web page](#).

If you have questions concerning disposal of your equipment or batteries, contact the VIAVI WEEE Program Management team at **WEEE.EMEA@ViaviSolutions.com**.

EU REACH

Article 33 of EU REACH regulation (EC) No 1907/2006 requires article suppliers to provide information if a listed Substance of Very High Concern (SVHC) is present in an article above a certain threshold.

For information on the presence of REACH SVHCs in VIAVI products, see the **Hazardous Substance Control** section of the [VIAVI Standards and Policies web page](#).

EU CE Marking Directives (LV, EMC, RoHS, RE)

This product conforms with all applicable CE marking directives. For details, please see the EU Declaration of Conformity included in the shipping package.

China RoHS

China RoHS documentation is included in the shipping package and available on StrataSync.

California Proposition 65

California Proposition 65, officially known as the Safe Drinking Water and Toxic Enforcement Act of 1986, was enacted in November 1986 with the aim of protecting individuals in the state of California and the state's drinking water and environment from excessive exposure to chemicals known to the state to cause cancer, birth defects or other reproductive harm.

For the VIAVI position statement on the use of Proposition 65 chemicals in VIAVI products, see the **Hazardous Substance Control** section of the [VIAVI Standards and Policies web page](#).

Compliance with 2014/53/EU Radio Equipment Directive (RED)

In accordance with Article 10.8(a) and 10.8(b) of the RED, the instruments for sale in the EU operate in the 5-205 MHz frequency range at a maximum RF transmit power of +15dBm.

Please contact us for more information:

VIAVI Solutions
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6001 America Center Drive
San Jose, CA, 95002



WARNING:

Pursuant to FCC 15.21 of the FCC rules, changes not expressly approved by VIAVI might cause harmful interference and void the FCC authorization to operate this product.



CAUTION:

Do not use the instrument in any manner not recommended by the manufacturer.



Before You Begin

Thank you for purchasing the Seeker MCA III. This guide provides setup and operating instructions to get you up and running as soon as possible.

Technical assistance

If you require technical assistance, call 1-844-GO-VIAVI / 1.844.468.4284.

Outside US: +1-855-275-5378

Email: Trilithic.support@viavisolutions.com

For the latest TAC information, visit
<https://support.viavisolutions.com/welcome>

About the Seeker MCA III

The Seeker MCA III is used to store leakage data collected from the Seeker or Seeker X and to upload the same leakage data directly to a PC or to the LAW server.

The Seeker GPS system provides a cost-effective way to equip each vehicle in a fleet with GPS-based reporting capabilities. The Seeker GPS system consists of the standard Seeker or Seeker X, a Seeker MCA III, and a GPS receiver.

The Seeker MCA III module includes a standard Wi-Fi communications module for the wireless upload of data to the Leakage Analysis Workshop (LAW).



Optional software

Although the MCA III comes preconfigured and ready to use from the factory, the following software is required for advanced configuration:

- **Seeker Setup** is used to configure the Seeker meter family, enabling the operator to assemble files containing channel frequencies, squelch levels, and other settings. Users can efficiently download configurations to one or more leakage detectors.

The following software is required for leakage data analysis using the Seeker MCA III:

- **Leakage Analysis Workshop (LAW)** is software that manages the storage and retrieval of leakage information collected by vehicle mounted Seeker GPS systems. Installed on a server, it receives leakage data uploads via the Internet/LAN or through a customer configured Wi-Fi wireless site.

Data stored in the LAW server may be displayed on maps or as text, used to generate leakage work orders, or downloaded to other VIAMI or third-party applications.

A guided tour of your Seeker MCA III

Front view



Display screen

The display is used to show the setup and operation status of the MCA III.

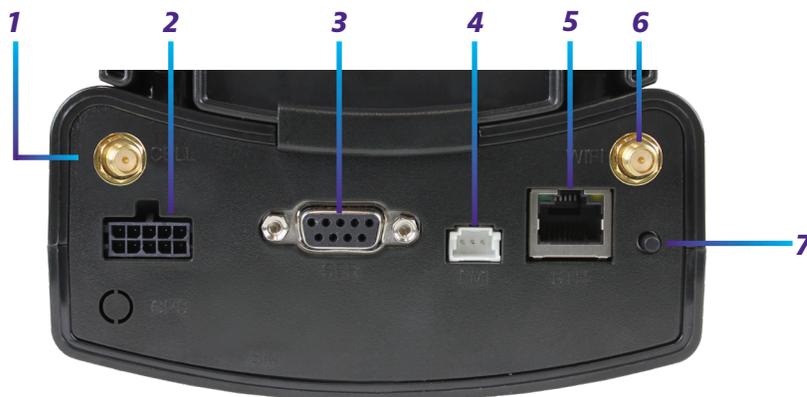
Side view



USB port

The USB port is not used at this time.

Rear view



1. **Cellular Antenna connection** – Not used at this time.
2. **Mobile Mount Serial Data connection** – Used with the MCA III serial cable to connect the Seeker or Seeker X Mobile Mount to the MCA III. Also, power is supplied to the MCA III through this connection from the Mobile Mount.
3. **GPS Serial Data connection** – Connects a serial (RS-232) enabled GPS receiver.
4. **FMI port** – Not used at this time.
5. **Ethernet connection** – Connects to a LAN network in order to upload leakage records to a LAW server or program the device with the Seeker Setup application.
6. **Wi-Fi Antenna connection** – Connects a Wi-Fi antenna in order to transmit leakage records to a LAW server.
7. **Select button** – Used to navigate the menu on the unit. Single click to scroll through the menus, double click to enter a menu.

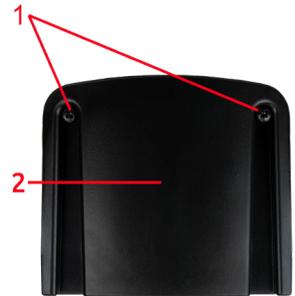
Seeker Mobile Mount & MCA III assembly

The following steps show how to install the Seeker MCA III onto the bottom of the Seeker or Seeker X Mobile Mount.

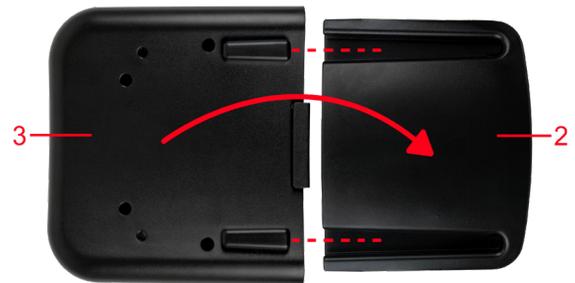
For these examples, we show assembly of the Seeker Mobile Mount, but the same process is used for the Seeker X Mobile Mount.

1. Remove the two 1/4" Screws (1) from the bottom of the Mobile Mount (2) that are closest to the front of the mobile mount, as shown here.

Discard these screws, they are no longer needed.



2. Align the ridges on the top of the Seeker MCA III (3) with the slots in the bottom of the mobile mount (2) and then place the bottom of the Seeker MCA III against the bottom of the mobile mount as shown here.



3. Slide the Seeker MCA III (3) forward until the Alignment Tab (4) comes into contact with the back side of the mobile mount (2).



4. Insert and tighten the two 1-1/4" Screws (included) into the mounting holes (5) on the bottom of the Seeker MCA III as shown here. To prevent damage to the Seeker MCA III housing, don't over tighten the screws.



Seeker MCA III installation

The following steps show how to install the Seeker MCA III in your vehicle.

NOTE:



Before installation, install the Seeker or Seeker X Mobile Mount in the vehicle as shown in the installation guide for your unit.

Also, configure these units using the Seeker Setup Software.

1. Connect the Seeker or Seeker X Mobile Mount to the Seeker MCA III using the serial data cable.



Seeker Mobile Mount and MCA III rear view

Serial data cable



Seeker X Mobile Mount and MCA III rear view

Serial data cable

NOTE:



When using the MCA III with the Seeker X Mobile Mount, be sure to connect the serial data cable to the serial port labeled "MCA" on the back of the Seeker X Mobile Mount.

2. Connect the GPS receiver and Ethernet cable to the Seeker MCA III.

- Connect the GPS receiver and Ethernet cable directly to the Seeker MCA III.
- The Ethernet connection is optional. It can be used for initial configuration and/or automatic upload of leakage records to LAW via the Ethernet connection of a mobile network provider.
- Mount the GPS receiver in a location that has a line of sight to the GPS satellites and will enable a reliable GPS location fix.



3. Connect the Wi-Fi antenna to the Seeker MCA III. Mount the antenna in a location that will enable communication with Wi-Fi access points.



Technical assistance

If you require technical assistance, call 1-844-GO-VIAVI / 1.844.468.4284.

For the latest TAC information, visit

<http://www.viavisolutions.com/en/services-and-support/support/technical-assistance>

Additional information

For more detailed information, contact us at Trilithic.support@viavisolutions.com for these additional documents.

[Seeker MCA III User's Guide](#)

[Seeker X Installation Guide](#)

[Seeker Setup Software User's Guide](#)

[LAW Software User's Guide](#)



22137818

Rev. 001, Jan 2020

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