

## RFI's Solar Connectivity Solution Provides Connectivity for System Monitoring in a Commercial Enphase Solar Installation

### QUICK FACTS

- RFI's Solar Connectivity Solution and RFI Antennas were deployed to provide communications for monitoring with the Enphase Enlighten Portal
- The 3G/4G modem solution allowed for monitoring on-site that was independent from any other on-site internet connections
- The quick plug and play solution assisted with reducing installation times

### PROJECT FACTS

- Installation was a part of \$200k project under the Lane Cove Council's Sustainability Action Plan
- Installed by partner Harvey Norman Commercial
- Installed successfully with a commercial Enphase system



*RFI worked with Harvey Norman Commercial Division to supply and install communication solutions to provide connectivity to allow for essential solar monitoring on the Enphase Enlighten portal.*



## The Challenge

Monitoring is an essential part of set up and maintenance of a commercial solar system. For access restriction reasons the connectivity available on-site could not be utilised by the installation team for monitoring purposes. Therefore, an independent connectivity solution was needed to be sourced and installed by the installation team.

As a commercial site, it was important to ensure that any solution for providing connectivity was enterprise level with reliability and security a priority for both the hardware and the SIM connection components. Any solution would also need to be appropriate for long term deployment and future proof against known technology changes. As an additional challenge on the site, one of the modems was to be located within a concrete room, creating a challenge for receiving reception with the site.

## The Solution

Our partner, Harvey Norman Commercial, had consulted and installed the solar system and hardware. As experienced providers of solar communication hardware, RFI was consulted for a solution that would be able to provide long term connectivity with high reliability.

The requirement for a connectivity system which was highly reliable, secure and easy to install made RFI's Solar Connectivity Solution an ideal solution. The MA-2055 modem in the bundle is an industrial grade modem, bundled with Vodafone's IoT SIM, it ensured that an enterprise level solution was installed. With multicarrier redundancy and superior security with the IoT SIM's Access Control list ensuring that only desired websites can be accessed, the need for a secure and reliable system was also ensured. The bundle is also 4G ready and so no changes will need to be made when 3G connectivity is lost at the site.

To assist with the challenge of receiving reception into the concrete room RFI was able to supply the CSM500 with a custom length cable to mount the antenna exterior to the building. The low-profile bracket mountable antenna made for perfect integration into the install as it was able to provide adequate reception without compromising building aesthetic.

## Our Partner

As CEC approved installers with extensive experience with commercial installations Harvey Norman Commercial has a proven track record of delivering quality solar installations across Australia.

## The Results

Utilising RFI's Solar Connectivity Solution and the CSM500 antenna connectivity was able to be organised for the system. This allowed for the quick, easy and reliable deployment of connectivity which meant monitoring in the Enphase Enlighten Portal was able to be accessed and set up rapidly and efficiently.

## Solar Connectivity Solution Features

- 4G ready future proof installation
- Quick and easy to install
- Secure solution for long term deployment
- Independent and robust internet connection
- Flexible plan offerings

## More Information

More detailed specifications are available on RFI website:  
<https://rfi.com.au/solarconnectivity/>

<https://www.rfiwireless.com.au/dualmax-dual-sim-ethernet-router-ma-2055.html>



Product Installation



Product Concept

