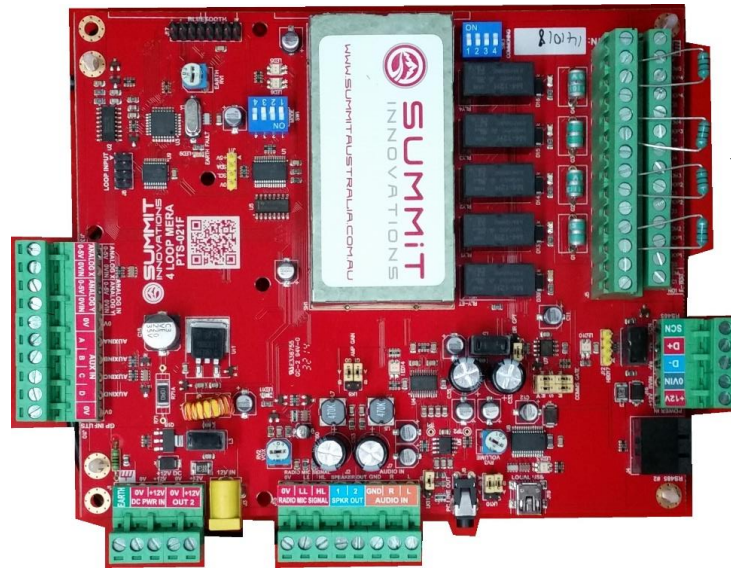# Recognizing Summit Innovations Timing Systems

# Installed within the United States



**The following pages provide assistance when working with an HME product connected to Summit Innovations timing systems.**

Clam Shell
Type

Red System
Type

Summit Mera-021
digital controller

Digital Loop Inputs
& Relay Outputs

There are predominantly two types of Summit Timing systems installed and these are depicted above
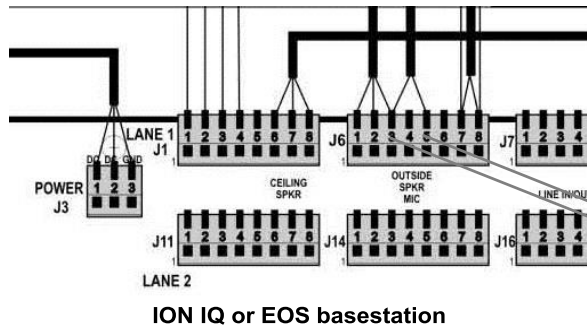
1. Clam Shell type, this has a flip down lid with power supplies in the bottom casing
2. Red System type, this has a screw on lid with a single power supply

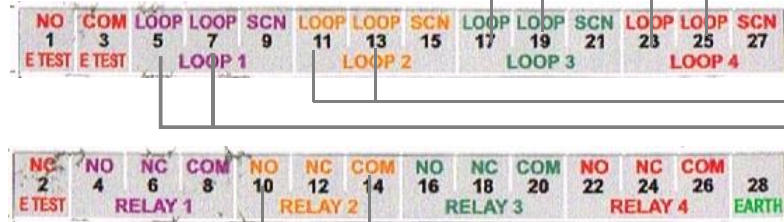Both boxes house the same Mera-021 digital controller.
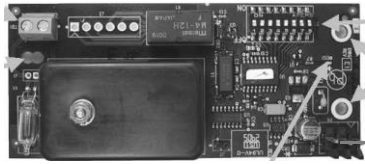
**Disconnect HME VDB-102 from "Vdb (J10)" input on EOS/IQ etc.**

**External Detector**
to J6, 3 = Ground
to J6, 5 = Negative Vehicle Detect Signal
(When not using optional VDB)

**ION IQ or EOS basestation**

LANE 1
J1
POWER J3
CEILING SPKR
OUTSIDE SPKR MIC
J6
J7
LINE IN/OUT
J11
J14
J16
LANE 2

**loop input from cashier window**

**loop input from pickup window**

**Summit Mera 021 digital loop detector card termination points**

| NO 1 | COM 3 | LOOP 5 | LOOP 7 | SCN 9 | LOOP 11 | LOOP 13 | SCN 15 | LOOP 17 | LOOP 19 | SCN 21 | LOOP 23 | LOOP 25 | SCN 27 |
| E TEST | E TEST | LOOP 1 | | | LOOP 2 | | | LOOP 3 | | | LOOP 4 | | |

**loop inputs (top row)**

| NC 2 | NO 4 | NC 6 | COM 8 | NO 10 | NC 12 | COM 14 | NO 16 | NC 18 | COM 20 | NO 22 | NC 24 | COM 26 | 28 |
| E TEST | RELAY 1 | | | RELAY 2 | | | RELAY 3 | | | RELAY 4 | | | EARTH |

**Relay outputs bottom row**

**Shielded twisted pair lead in cables from loops**

**Relay output from Summit Mera 021 card to negative vehicle detect input on basestation**

**Pre alert detection loop (when installed at a site) "to loop 1 input" (refer note 2)**

**Order point detection loop "to loop 2 input" (refer note-2)**

Notes:-
1. The above suggests a site with a pre alert loop as number 1 and order point loop as number 2 on the Mera 021 with other loops such as cash & pickup as 3 & 4
2. Where the site does not have a pre alert, then the order point would be input 1 on the Mera 021 making the relay output to the basestation relay 1 N/O & Common.
3. The Summit timing system uses a digital loop detection circuit and as such does not require vehicle detectors such as a VDB-102.
4. Each "loop, loop, scn" is a single digital loop circuit input and the road detection loops must connect to this point. This then requires the relay output from the Summit controller (shown above) to provide the switching input on the basestation to activate the headsets.
5. The Mera 021 has independent operation from the Summit software, even if the Summit timing system software is not running, the Mera 021 card will still operate as long as their is power to the controller board.
6. If the loop input is removed from the Mera 021 and routed to the basestation, the timer system does not operate.
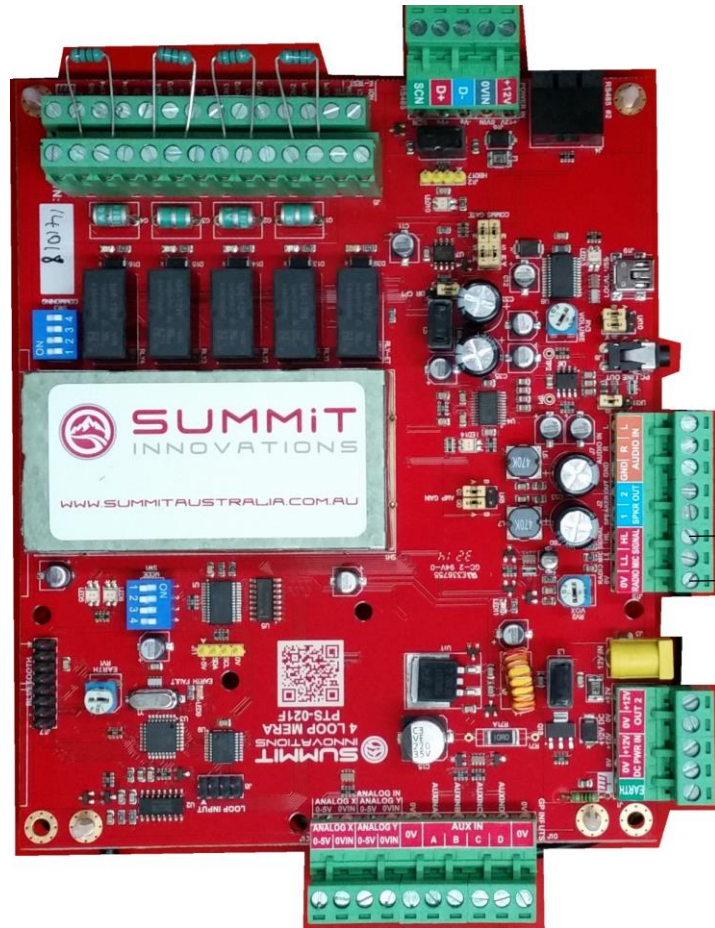
# Connections for the HME EOS / IQ when a Summit Timing system is installed

SUMMIT INNOVATIONS

# Summit Mera-021 Digital controller, Greet function connections to an HME basestation



**To J6 pins 7 & 8 on EOS / IQ (In parallel with the external speaker)**
**((Refer to the EOS / IQ manuals))**

The Greet function on the Summit P.T.S system is performed in a similar manner as to the HME scenario, the audio from the base station's external speaker (Order Point) is paralleled with the VOX input on the Digital controller card, this is then configured within the Summit software as a "Greet" function.

When the VOX circuit on the Mera-021 controller board is sensed, it automatically pauses timing at this point for a defined period (programmable)

On the Mera-021 digital controller card, there is an adjustable POT and LED indicator, when audio is sensed, the LED will start to blink & the input level can be controlled via the RV2 POT

Note:- where there is a "Pre-Alert" detection point installed (1st input) there is no requirement for a "Greet" function, it can however, still be utilized if required.

For telephone support, please call the Summit Innovations USA helpdesk on

(857) 400-0034

Or email

hmesupportusa@summitqsr.com

Please provide the following detail in the email for a speedy response to your particular issue

- Your name
- Your contact phone number (cell number)
- The name and details of the customers location (premises)
- A brief description of the issue or query

One of our technical support team will be pleased to assist you