

MAYAH Communications Application Note 37

GPIO

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1. General description

C11xx supports 4x opto input and 4x relay output. These inputs and outputs can be used for remote signalling if the used connection is able to transfer ancillary data.

Internal signals like alarm, framing, overload and connect must be configured by the user. This can be done with event action programming.

2. Technical description

Opto inputs use separate pins for + (plus) pin (pins 2-5) but just one common - (minus) pin, (pin 6). The inputs can be used with 5 volts. All opto inputs and relay contacts are potential-free.

Please refer to <http://www.mayah.com/content/download/pdfs/manuals/C11-GPIO-pinlayout-w.pdf> for the corresponding pin layout.

3. How to use on MAYAH devices

Detailed information for the following examples is available in the Communication Reference Manual CRM. Please note that any condition as decided in the CRM can be used for this signalling.

3.1 Example of signal framing on GPIO (relay out 3)

```
action_create TTLON3 ttl_io 3 on
action_create TTLOFF3 ttl_io 3 off
event_set framed_on 1 TTLON3 true
event_set framed_off 1 TTLOFF3 true
event_save
```

3.2 Example of signal connect on GPIO (relay out 4) for 10 seconds

```
action_create TTLON4 2$sig_connected on; 2$sig_connected off; ttl_io 4 on
action_create TTLOFF4 ttl_io 4 off
1$event_set connect_on 1 TTLON4 true
2$event_set connect_off 1 TTLOFF4 true 10000 10000
```

event_save