

Gatekeeper 410/1250

IoT device for Automatic Number Plate Recognition

Hardware extender modules

The integrated and sealable junction box at the back of the Gatekeeper has a 6-pole feature connector, for I/O functions and 5 Volt DC power supply. Depending on the output configuration of the Gatekeeper Axon, different functions will be delivered on the feature connector pins:

- 1) Wiegand serial signal (carrying pass code number data);
- 2) Two output contacts (to switch external peripherals);
- 3) Six exclusive output switching table or
- 4) Custom / future specific input / output functions.

As a break-out data or switch module, two different Extender modules are available:

Gatekeeper I/O extender Ethernet modules

AV_GK_EXT1	<ul style="list-style-type: none"> • A Wiegand interface 5 Volt level shifter / driver for longer cable lengths • Dual relays for two separate changeover potential free contacts
Inputs/Outputs	Features 6 exclusively switched changeovers, potential free contacts. Each can be connected as NO or NC contact.

For every Wiegand cable to be connected to a Gatekeeper, the use of AV_GK_EXT1 is strongly recommended, as the D0 and D1 terminals are providing a 5 Volt level. This is the Wiegand standard and provides overvoltage protection. Especially longer length cables are only supported by the use of the EXT1 module, because of its high-power bus drivers for the larger capacitance value of longer cable lengths.

The potential free contacts of both Extender module relays can switch up to 250 Volt AC, 120 Volt DC loads up to a few Amps of current, although voltages well below 100 Volt is recommended. Otherwise, cascade a higher power relay with lower voltage coils. The minimal contact load is 100mA at 5 Volt DC. Use properly insulated cable when connecting higher voltage loads. Further normal miniature relay contact specifications apply.



AVUTECH's I/O extender

The Extender modules can be controlled by actions and trigger scripting within CortexFramework, so every thinkable application can be supported.

For other specific applications, where both Extender modules or other interfaces do not fit, contact AVUTECH sales as customer or application specific modules can be offered.