

## TECHNICAL DATASHEET

### SMARTGRIP RIFLE INPUT CONTROL

#### OVERVIEW

The SmartGrip Rifle Input Control (RIC) is a rifle-mounted controller that has been designed so that soldiers can quickly and safely access and control key functions of their electronic devices without having to take their hands off the weapon or eyes off task.

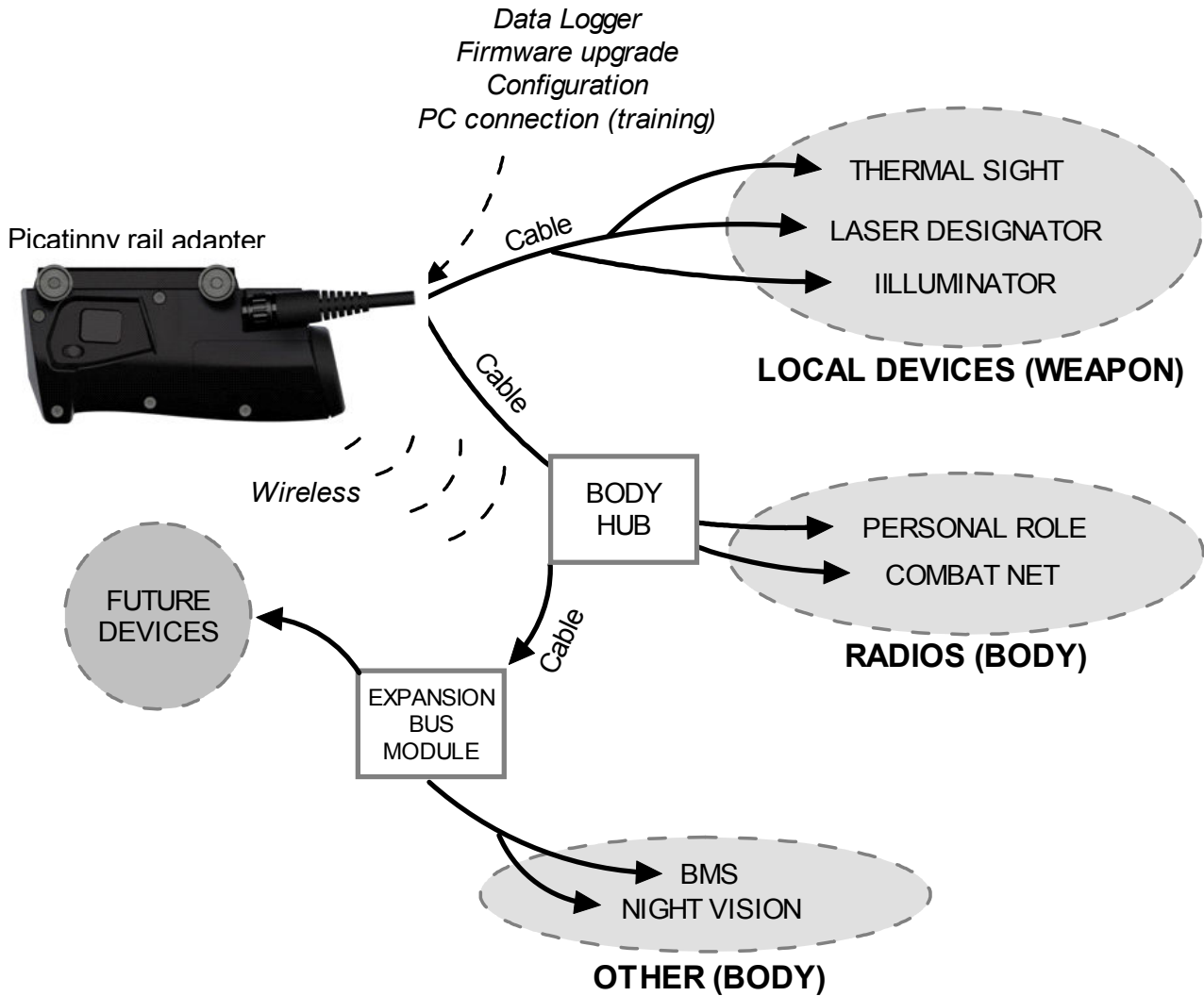


It is operated by pressing single or multiple buttons (chords) – like playing a computer game. It has 5 buttons and contains a small microprocessor that enables it to be programmed for particular tasks and roles or to control specific devices. It was originally developed in collaboration with Thales Australia for use by frontline soldiers to provide a simple means of controlling their soldier combat systems. Various forms can be produced for incorporation into other weapon systems including pistols, machine guns and remote weapon stations.

#### KEY TECHNICAL FEATURES

|                          |   |   |
|--------------------------|---|---|
| <b>RUGGEDISATION</b>     | Internal Protection Rating – 67<br>Glass-filled nylon housing with internal O-ring seal<br>Water, dust and shock proof  |   |
| <b>ERGONOMICS</b>        | Dual power / precision grip<br>Lock-out switch with customized pass-through   |   |
| <b>POWER</b>             | 1 x field replaceable CR123 battery<br>1 year operation time (1,200 operations per day)<br>Solar powered option – available on request<br>Low battery indicator (LED)   |   |
| <b>WEIGHT</b>            | Controller - 200gms (with battery)<br>System with cables – up to 500gms (configuration dependent)   |   |
| <b>CONNECTIVITY</b>      | Wired or wireless (on request)<br>1 x MIL SPEC SCE socket (14 pin)  |   |
| <b>CONFIGURATION</b>     | Local devices: 2 x switched loads; 2 x serial<br>Body worn devices: - Control / Expansion Bus (I <sup>2</sup> C)  |   |
| <b>INTERFACES</b>        | Two wire (compatible with I <sup>2</sup> C); Usb, serial, others on request   |   |
| <b>SYSTEM COMPONENTS</b> | 1 x cable set (Local Devices)<br>1 x cable set (Body-worn devices)<br>1 x expansion bus module<br>1 x radio control interface module<br>1 x data logging module (for training)<br>1 x synthetic speech module<br>1 x accelerometer module |   |
| <b>CIRCUITRY</b>         | Low power re-programmable micro-controller<br>Built-in self test and diagnostics  |   |
| <b>EXPANDABILITY</b>     | Modular firmware architecture – readily upgradable<br>Configurable and customizable for specific functions/roles<br>Custom modules for control of additional devices  |   |
| <b>DEVICES</b>           | Radios<br>Thermal Weapon Sight<br>Night Aiming Device<br>Illuminator  | Push-To-Talk; Volume Up/Down; Change Radio<br>White/Black Hot; Zoom In/Out<br>On/Off; Pulse<br>On/Off |

## PRODUCT CONFIGURATION



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