



PageSwitch

VHF Paging Module for Remote Control and Switching

Multitone has developed a paging receiver for remote switching applications. These can be used to switch electrical devices on and off through the use of the national paging networks. The user activates up the PageSwitch from a standard telephone and types in a 6-digit PIN number followed by a 2-digit command code. This method prevents accidental switching operations caused by dialling errors of other pager users. Switching actions are immediate after reception of the paging message.

Switching Versatility

In addition to the simple On/Off action every PageSwitch has several other commands ranging from switching a device On or Off for a specific time to periodical On/Off switching.

Applications

PageSwitch can be used anywhere that simple remote control switching is required in domestic, industrial and security applications. PageSwitch can be used for stolen vehicle immobilisation, power switching of radio modems in remote areas where mains electricity is not available and for remote control of surveillance equipment.

Battery Operation

Battery powered PageSwitches work off a wide variety of supply voltages from as low as 1V to 24V. Power consumption is extremely low (standby: <math><1\text{mA}</math> @ 1V), running off a single alkaline D-Cell battery the PageSwitch will operate continuously for about 2 years.

On-Site and Energy Saving

PageSwitches are also available for operation on local small area sites i.e. hospitals, company premises and utility sites where a private VHF paging system is available. PageSwitch offers a number of benefits. Unused electrical equipment can be automatically switched off at night reducing electricity bills. Security lighting, alarms and similar devices can easily be controlled centrally. Calls to PageSwitches can be made manually and automatically.

OEM Modules

PageSwitch is offered as an OEM module for integration into customer applications. PageSwitch operates in the VHF paging band. They are available with Relays or MOSFETs for RF or current switching, various power supply options and custom versions that can interface to external equipment in specific ways. All modules can control up to three outputs individually.

Control Signalling

For existing users of VHF Multitone paging systems, PageSwitch can easily be added as just another user on the private network. For wide area or nationwide operation the PageSwitch needs to be affiliated to a network service provider who will assign the access codes and levy charges, usually on a per month basis. Multitone can provide PageSwitch devices configured for use throughout the US through our agreements with the national networks.

PageSwitch

General

Dimensions: 76.2mm long x 56.2 mm wide x 23 mm high (3 in x 2.2 in x 1 in) (height shown is maximum, will vary with antenna configuration)

Temperature Range: 14°F to 131° F (-10°C to +50°C)

Radio

Antenna:	Internal or external
Power Supply:	1-24 VDC
Pager RIC's:	Up to 2 million
Access PIN:	6 Digits
Switching Code:	2 Digits
Battery Life:	2 years w/ single alkaline D cell
Sensitivity:	.08uV/-129 dbm
Adjacent Channel Selectivity:	>70db
Intermodulation Rejection (2 Tone):	>60 db

Outputs

Number of Outputs:	5, with On/Off control
Configuration:	5 x CMOS Optional- Output Port 1 configured for 5, 12, or 24 relay (max 1.1 A) or high impedance (MOSFET) output.
Output Grouping:	Up to 3
Output On Timing Control:	Up to 3, 1 sec. To 60 minutes
Switching Time:	Adjustable for use with external modem

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