

# FORCE Series Security System



FORCE is an intruder alarm system, intended to give connectivity through a Network (Ethernet), PSTN, cellular modem and long-range radio. The Force has several models that are different in some abilities. The full features model is Force 144. It supports 144 zones and 144 users. At the end of this spec the various models are described.

## Features

- 8 onboard zones
- 2 tamper inputs
- Up to 144 zones using zone expanders
- Simple connection, 1 EOL and 2 EOL support
- 16 Partitions

## Technical specifications

### Outputs

- Two 1A sirens (power taken from backup battery and AC)
- Two 200mA OC outputs
- One 1A relay
- Support one/two relay outputs on each zone expander 8/16
- Support eight relay outputs on each outputs expander

### Local BUS

- Type: Serial communication, Differential
- Baud rate: 19,200kb/s
- Voltage Levels: 0, +13.8V

### Aux Voltage Output

- 13.8 VDC
- Current: 1.1A max
- Protection: Thermal Fuse

### Keypads Support

- LCD Keypads (up to 16 in a system)
- ID = 0...16
- 4 LEDs

### Communication

- Long range radio transmitter
- Network: on-board Ethernet, RJ-45 connector
- Cellular: 2G/3G/4G, SMS, Voice, dual SIM add-on module
- PSTN: on-board, Terminal Block connection, IN-OUT
- Central station (2), contacts (32).
- Cloud connection to PIMAlink 3 Smartphone Application

### Power supply

- Housed panel: 230VAC
- Panel AC Inputs: 14 to 20VAC
- Backup battery (not supplied): 13.8VDC lead-acid battery, up to 7Ah
- Power from battery while AC power is not applied: main board without load and add-on modules: 50mA (max)

### General

- Operating temperature range: -10°C to +55°C

### Force model features

Features	CFH500 Force 144	CFL500 Force Lite	CFH532 Force 32	CFH632 Force 32 w/app.	CFH516 Force 16
Supported Tamper	2	1	1	1	1
Supported Outputs					
High current siren	2	1	1	1	1
Open Collector	2	2	2	2	2
Relay	1		1	1	1
Max # zones	144	64	32	32	16
Max # users	144	64	32	32	32
Supports PSTN	Y	N	Y	Y	Y
Supports Application in Network	Y	Y	N	Y	Y



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