UHPPOTE UTX031 L0X

Protocol Description

UHPPOTE UTO0311 LoX

Protocol Description

Overview

The UHPPOTE-UTO031-LoX protocol is a UDP packet protocol that provides the functionality required to:

- identify the UHPPOTE-UTO031-LoX controllers present on a TCP/IP network

- configure the controllers present on a TCP/IP network

- listen for access events from controllers present on a TCP/IP network

A request is 64 byte UDP packet with the following general format:

0x17	CODE	PARAMETERS...

A response is 64 byte UDP packet with the following general format:

0x17	CODE	DATA...

Message elements

	TYPE	ENCODING
Device ID	uint32	binary
Card Number	uint32	binary
Date	YYMMDD	BCD
Time	HHmm	BCD
IPv4	N.N.N.N	binary[4]
MAC	X.X.X.X.X	binary[6]

COMMAND	CODE	DESCRIPTION
find-devices	0x94	Broadcast command to identify all devices on a subnet
get-status		
get-time		
get-cards	0x58	Retrieves the number of card records stored in the internal access list
get-card-by-number	0x5A	Retrieves the card record for the card number from the internal access list
get-card-by-index	0x5C	Retrieves the card record at the index in the internal access list
get-swipes		
set-time		
set-ip-address		
grant		
revoke		
open-door		

FIND DEVICES

UDP broadcast command to identify all UHPPOTE-UTO031-LoX controllers present on the local TCP/IP network.

REQUEST:

OFFSET	LENGTH	FIELD	VALUE
0	1	SOM	0x17
1	1	CODE	0x94
2	1	PAD	0x00
3	1	PAD	0x00
4	60	PADDING	0x00 0x00 ...

RESPONSE:

OFFSET	LENGTH	FIELD	VALUE
0	1	SOM	0x17
1	1	CODE	0x94
2	1	PAD	0x00
3	1	PAD	0x00
4	4	SERIAL NUMBER	uint32
8	4	IP ADDRESS	IPv4
12	4	SUBNET MASK	IPv4
16	4	GATEWAY ADDRESS	IPv4
20	6	MAC ADDRESS	MAC
26	2	VERSION	VERSION
28	6	DATE	DATE
34	30	PADDING	0x00 0x00 ...

Example:

```
17 94 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```

```
17 94 00 00 2d 55 39 19 c0 a8 01 7d ff ff ff 00
ff ff ff 00 00 66 19 39 55 2d 08 92 20 18 08 16
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
```