

DoubleClue Hardware Token White Paper

1. Introduction

The Single Button OTP Tokens with the compact size of a key ring generate time-based one-time passwords compliant with the standardized OATH-TOTP algorithm.

2. Supported Algorithm

The tokens support a Time-based One-Time Password algorithm (TOTP) according to the international standard IETF RFC 6238.

3. General Features

- OATH-compliant TOTP (Time-based OTP)
- SHA-1 and SHA-2 Hash algorithm
- Cycle time of 60 seconds
- 6-digit display, optionally with 8-digit display

4. Product Information

Every token has a printed registration key and a seed. The secret seed is used to generate the passcode. Tokens come in batches and every batch has a seed file which is encrypted with a phrase of 32 characters. The seed file is imported into DoubleClue Enterprise Management (DCEM) together with the phrase. The DCEM Operator can then assign tokens to users.



OTP c200
H41



OTP c200
I28

5. Product Specifications

Case H41	Size: 60 x 27 x 10 mm	Weight: 16,1 g
Case I28	Size: 45 x 20 x 7 mm	Weight: 13.4 g
Material	PC+ABS	
Energy Consumption	Less than 0.005mW	
Operating Temperature	- 10 °C till 50 °C	
Storage Temperature	- 20 °C till 70 °C	
Humidity	0 - 100% without condensation	
Lifetime of Battery	5 years	
Physical Resistance	IP65 Ingress Protection (under evaluation) IP68 for Glue Injection	