

Sąd Rejonowy w Poznaniu VIII Wydział Gospodarczy KRS KRS 0000283678 Kapitał zakładowy 50 000 zł. NIP 7811806278 Regon 300614000

## Certificate of Calibration

Certificate No: 09/09/12-126

Description:  Model Number:	High Accuracy Time Transfer System includes choke ring antenna TTS-4		Manufacturer:  Serial Number:	PikTime Systems Ltd
Customer: Hong Kong Observatory Serial Number:			126	
Calibration Date:	03/10/2012		Calibration Due Date:	
Temperature:	0 to 40 ° C		Relative Humidity:	0 to 80%
Cable dt values 100 m TTS4-126 = 2 m TTS4-126A = RMS 0,5 ns	415.12 8.65 ns		Measured Device Accuracy:	Time transfer Precision: ~1ns Time transfer accuracy: ~2ns

This is to certify that the equipment has been calibrated against a primary time standard that is traceable to the international time standard maintained by BIPM. The equipment is fully implement and comply with the Consultative Committee for Time and Frequency (CCTF) Group on Global Navigation Satellite System (GNSS) Time Transfer Standards (CGGTTS) guidelines for manufacturers of GNSS receivers used for timing. The ensemble is traceable to the National Institute of Standards and Technology (NIST) by the long-term comparison measurement with Global Positioning System (GPS).

> Robert Urbaniak 03/10/2012

Robert Ubarrat