all data is interpreted as 32-bit words (Intel byte order) highest 4 bits are data type (code) => (0x0, 0x1, 0x2, ..., 0xF)

UInt_t word => 4 bytes or 32 bites

31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00
bit																															

word >> 28

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

word >> 24 & 0xF

C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31 bit	30 bit	29 bit	28 bit	27 bit	26 bit	25 bit	24 bit	
C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	=> 0xF
C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27 bit	26 bit	25 bit	24 bit	
																													tdc	_id,	, 4b	it	

word >> 19 & 0x1F

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31 bit	30 bit	29 bit	28 bit	27 bit	26 bit	25 bit	24 bit	23 bit	22 bit	21 bit	20 bit	19 bit	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	=> 0x1F
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23 bit	22 bit	21 bit	20 bit	19 bit	
																											tdc	_ch	ı, 51	oit		

word & 0x7FFFF

0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	=> 0x7FFFF
0	0	0	0	0	0	0	0	0	0	0	0	0	18 bit		16 bit	15 bit	14 bit	13 bit	12 bit					07 bit						01 bit	00 bit	

fTdc, leading time, 19 bit

tdc_id = 1 => tdc_num = 0

tdc_id = 2 => tdc_num = 1 tdc_id = 4 => tdc_num = 2

tdc_id = 8 => tdc_num = 3

tdc_id < 16 (4 bit) tdc_ch < 32 (5 bit)

fTdc*(1/(40e6*256)) time in sec.

 $phtd\underline{c_norm_map_ch_code}[tdc_num][tdc_ch/2] \mathbin{//} [4][16] \Longrightarrow array \ of \ fNtdc$

