TWN4 FAMILY

Pinout & Cables
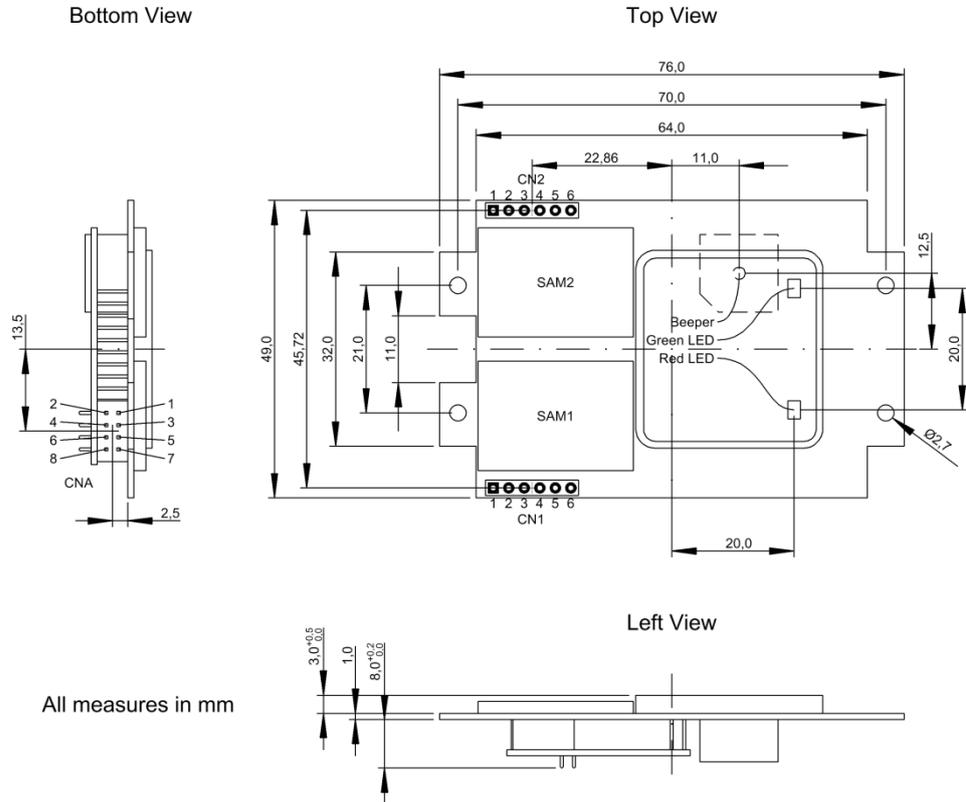
Bottom View

Top View

Connector CNA*	
Pin	Signal
1	USB/Supply Ground (black Wire)
2	USB Data+ (green Wire)
3	USB/Supply 5V (red Wire)
4	USB Data- (white Wire)
5	RX232 RxD (Input)
6	J2-1**
7	RX232 TxD (Output)
8	J2-2**

* Hirose DF11 series, 2mm pitch

** RS232 operation is achieved by either closing jumper J2 on the PCB or by connecting pin 6 and pin 8 of CNA.

Connector CN1	
Pin	Signal
1	Supply Ground
2	5V Supply
3	Logic Input RxD (active low)
4	Logic Output TxD (active low)
5	GPIO2
6	GPIO3

Connector CN2	
Pin	Signal
1	Supply Ground
2	3.3V Supply
3	SCL (I²C)
4	SDA (I²C)
5	RESET (active low)
6	POWERDOWN (active low)

All measures in mm

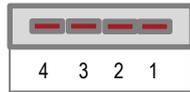**Left View**

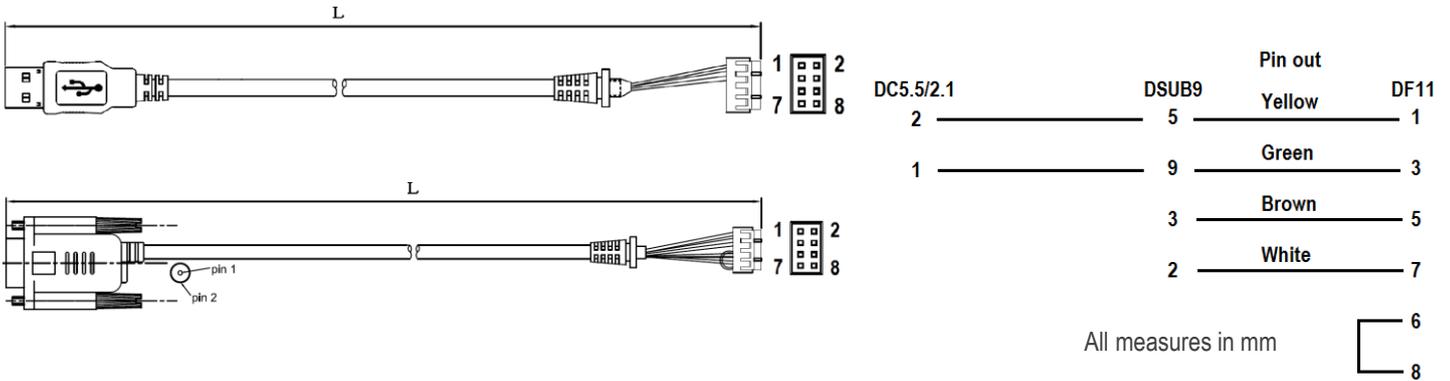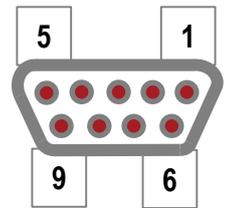| CNA connector	
Part name	**Supplier part number**
Conn Header 8pos 2mm	Hirose DF11-8DP-2DS (24)
Conn Socket 8pos 2mm	Hirose DF11-8DS-2C
Conn Socket 22AWG Crimp	Hirose DF11-22SC (22 AWG)

Dimensions and Weights		
TWN4 OEM PCB	76x49x14 mm / 3.0x1.9x0.6 inch	Approx. 20g
TWN4 Desktop Reader	88x56x18 mm / 3.5x2.2x0.7 inch	Approx. 123g (incl. 2m USB cable) Approx. 152g (incl. 2m RS232 cable) Approx. 257g (incl. 2m RS232 cable and power supply)

USB type A cable	
PIN	Signal
1	VCC +5V (red)
2	D- (white)
3	D+ (green)
4	Ground (black)

RS232 cable DSUB 9 DC female	
PIN	Signal
3	RxD from host (brown)
2	TxD to host (white)
5	Signal ground (yellow)
9	5V power supply from host (green)

Pin out

DC5.5/2.1		DSUB9		DF11
2		5	Yellow	1
1		9	Green	3
3			Brown	5
2			White	7
				6
				8

All measures in mm

RS232 device needs external 5V power supply. This can be achieved either with an external power supply or via pin 9 of DSUB9 connector. The USB device is powered via USB connector.

Elatec 5 V Power Supply		
Order code		
PWA-US	Power supply (US)	
PWA-EU	Power supply (EU)	
PWA-UK	Power supply (UK)	
PWA-AUS	Power supply (AUS)	
PWA-JP	Power supply (JP)	

Cables			
Order Code		(L)ength inch (tolerance)	(L)ength mm (tolerance)
CAB-B2	Type A USB	78.7 (+2.8/-0)	2000 (+70/-0)
CAB-B3	Type A USB	5.6 (+0.8/-0.8)	142 (+20/-20)
CAB-B4	Type A USB	17.7 (+0.5/-0)	450 (+12/-0)
CAB-B7	Type A USB	47.2 (+2.8/-0)	1200 (+70/-0)
CAB-M1	Mini USB	5.0 (+0.4/-0.4)	128 (+11/-11)
CAB-M2	Mini USB	9.8 (+0.4/-0.4)	250 (+10/-10)
CAB-R2	RS232	78.7 (+2.8/-0)	2000 (+70/-0)