



Table 1 Technical Features

Processor/Memory	Detail
STM32L162RD	ARM Cortex M3, 32MHz, ultra-low-power, AES-128 bit encryption hardware accelerator
RAM memory	48 KB
Flash memory	384 KB Flash memory with ECC
EEPROM	12 KB
Peripherals	Details
Radio	Decawave DWM1000 IEEE802.15.4 UWB

The CDS VersaNode 360 is an 802.15.4 UWB radio module featuring an ISA100 Wireless industrial communication stack. The module is designed to support applications in the areas of avionics, automotive and oil & gas industries.

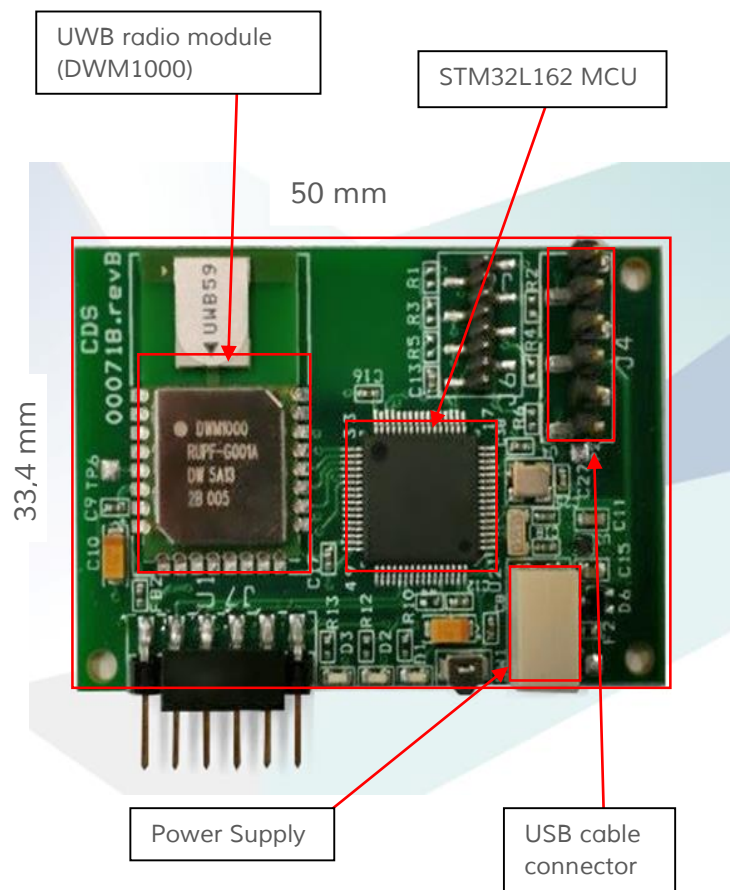
The VN360 board features an STM32L162RD microcontroller paired with the Decawave DW1000 802.15.4 UWB transceiver connected over one of the SPI interfaces.

Table 2 Normal operating conditions

Parameter	Min	Typ	Max	Units	Comment
Supply Voltage	4	5	5.5	V	
Voltage supply noise		51		μVRMS/V	10 Hz to 100 kHz
Storage and operating temperature	-40		+85	°C	
Transmit current		140		mA	Channel 5:TX Power: 9.3 dBm/500 MHz
Receive current		160			Channel 5

Table 3 Radio Characteristics

Parameter	Min	Typ	Max	Units
Operating frequency	3.5		6.5	GHz
Number of channels		6		
Raw data rate	0.11		6.8	Mbps
Receiver sensitivity		-100		dBm/500 MHz



VN360 UWB Node