

L1 GPS ANTENNAS

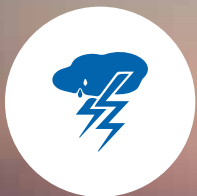
VIC100 & VIC100Jr



LIGHTNING
PROTECTION



IMMUNITY TO NOISE
& INTERFERENCE



WORKS IN HARSH
ENVIRONMENTS



VIC100



VIC100Jr

NEW
60% Smaller



MOBILE
COMMUNICATION



PICO & CELL TOWERS



SURVEYING
EQUIPMENT



TRANSPORTATION



NETWORK TIMER



SEISMIC METER



FINANCIAL

VIC100Jr Specifications

For applications where a compact size is required

Meeting market demand for small and light-weight GPS antennas to be used with LTE-advanced small cell (pico-cell) base stations for installation on electric poles, street lights or building walls.

Reliability in harsh environments

Excellent performance under severe environment (rain, snow, etc.) with application conscious design.

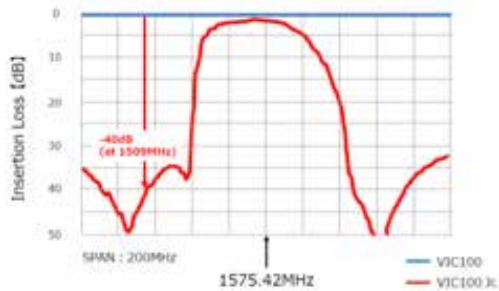
Immunity to lightning surges

Enhanced immunity to lightning surges [IEC61000-4-5 Level 4 (4000V)].

Immunity to electromagnetic interference

Secure performance by attenuating noise and interference near GPS L1 frequency through four-stage filtering structure.

VIC 100 Series		
Physical Dimensions: *(without connector)		60 mm D x 60 mm H
Weight: *Weight depends on model		115g
Material	Radome:	UV-stabilized polycarbonate
	Bottom housing:	Die-cast aluminum
	Connector:	N-type
Applicable Models		CCA32VL27 (non-lightning) CCA32VL47 (lightning)
Electrical Frequency Range		1575.42 +/- 1.023 MHz
Polarization		Right-hand circular
Total Gain (@ 90° elevation angle)		33 dB (typical) 27 dB (min)
Attenuation		60dB (min) at 1575.42 +/- 50 MHz
Noise Figure		2.5dB (typical) 3.2 dB(max)
VSWR		1.5 (typical) 2.0 (max)
Power	Operating Voltage	3.5 - 6.0 VDC
	Operating Current	18mA(typical) 25mA(max)
Environmental	Operating Temperature	-45 to +85° C
	RoHS Compliant	YES



Bracket accessory (sold separately)



VIC100 antennas

The VIC100 antennas are active L1 GPS antennas designed primarily for timing and synchronization purposes for different industries:



Financial



Mobile Communication



Transportation



Network Timer Servers



Seismic Monitoring Networks

Immunity to electromagnetic interference

Secure performance by attenuating noise and interference near GPS L1 frequency through triple filtering design.

Reliability in harsh environments

The VIC100 L1-GPS antennas have a waterproof housing and work reliably even under harsh environmental conditions (rain, snow, etc.). The cone shape of the antenna prevents deposits of snow and ice, which can lead to unwanted disturbances. In addition, uninvited guests like birds are deterred by the conical shape.

Immunity to lightning surges

Due to the placement of the antenna on top of structures the VIC100 Series L1 GPS Antenna is designed with enhanced immunity to lightning surge [IEC61000-4-5 Level 4(4000V)] preventing antenna failure caused by induced lightning.



VIC100 Series GPS Antenna



VIC100Jr

GPS antenna selection guide

	Model	Connector	Mounting Base Type
VIC 100 Standard Series	CCAH32ST01	TNC	A
	CCAH32ST02	TNC	B
	CCAH32ST03	N	Ant. only
	CCAH32ST04	N	B
	CCAH32ST05	TNC	Ant. only
VIC100Jr Standard	CCAH32VL27	N	Sold separately
VIC 100 Series Lighting Protection	CCAH32ST12	TNC	B
	CCAH32ST13	N	Ant. only
	CCAH32ST14	N	B
	CCAH32ST15	TNC	Ant. only
	CCAH32ST16	TNC	A
VIC100 Series Filtering with Lighting Protection	CCAH32ST24	N	
VIC100Jr Lighting Protection	CCAH32VL47	N	Sold separately
Accessories			
	CCANT	B Type Mount Only - VIC100	
	GPS-N-MT2	Works with TNC connector +A-Type Mounting Base	
	GPSMBJR	Pole/Flat Mount for VIC100JR	

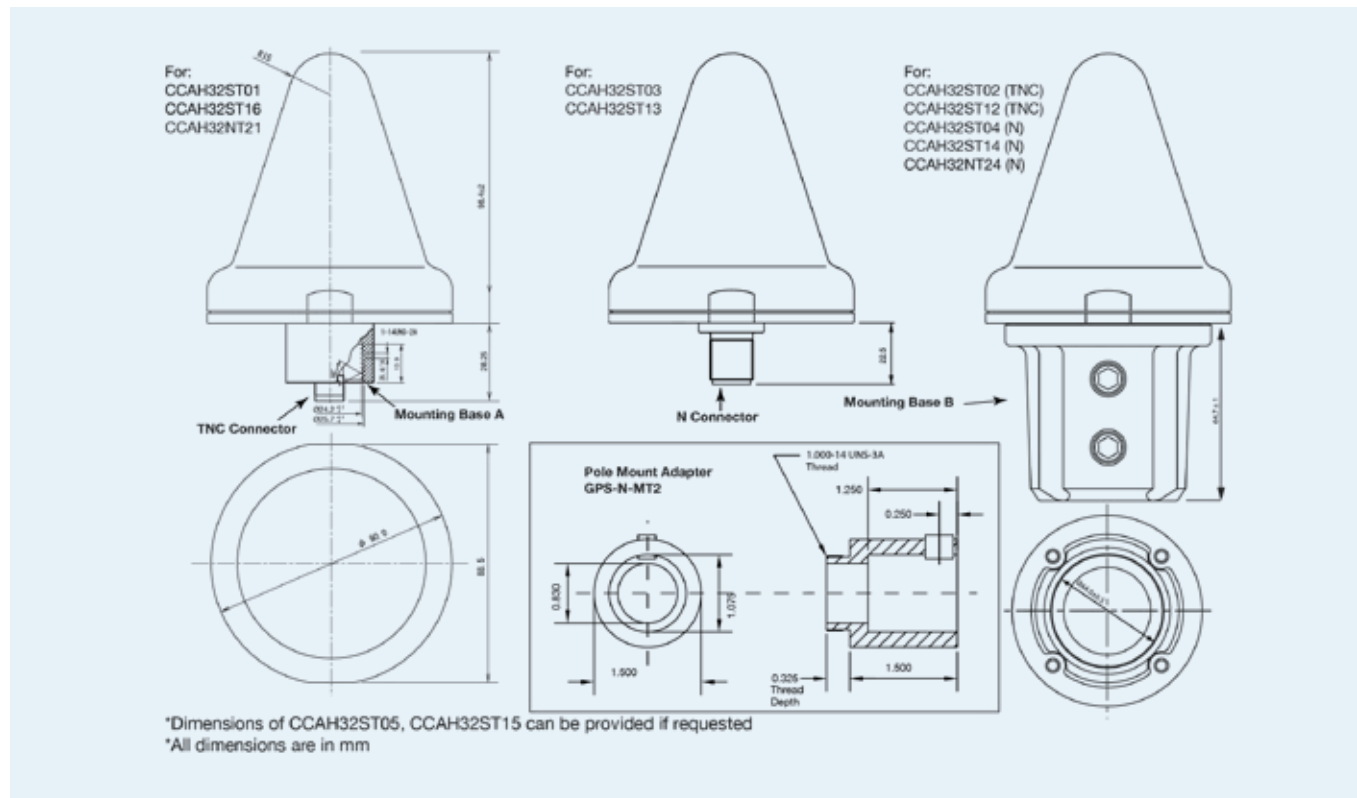
The VIC100 Series L1 GPS Antenna is designed in full compliance with the European RoHS Directive.

Panasonic's VIC100 GPS antennas are designed for high-precision timing and synchronization tasks that are specifically required in wireless telecommunications. The antennas convince with their excellent filtering and noise immunity as well as an improved lightning protection. The VIC100 series have proven their durability and reliability worldwide for years in the field.

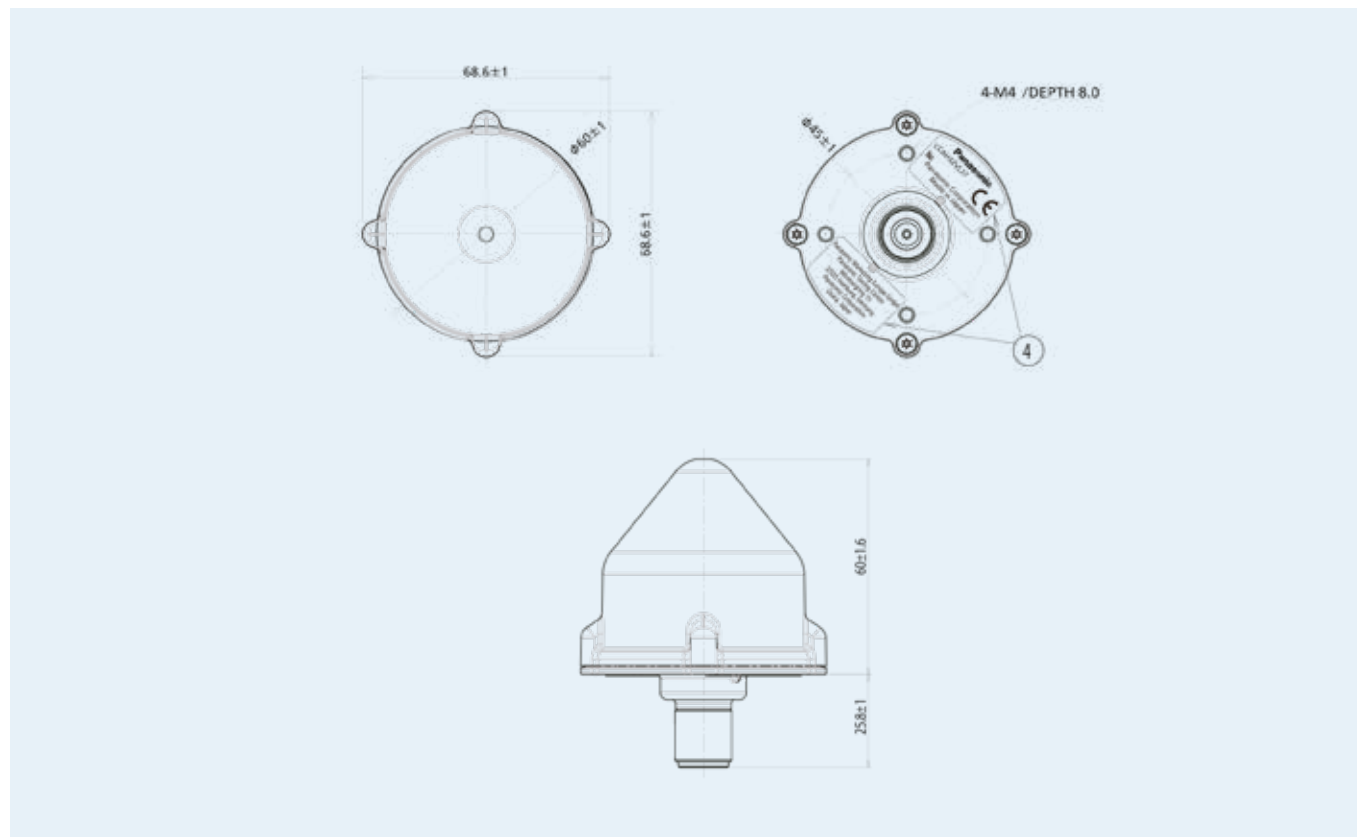
		VIC 100 Series	VIC 100 Series w Enhanced Lightning Surge
Physical Dimensions: *(without connector)		90 mm D x 98.4mm H	
Weight: *Weight depends on model		195/200/285 ±20g	
Material	Radome:	UV-stabilized polycarbonate	
	Bottom housing:	Die-cast aluminum	
	Connector:	N-type or TNC	
Applicable Models		CCA32ST01 CCA32ST02 CCA32ST03 CCA32ST04 CCA32ST05	CCA32ST12 CCA32ST13 CCA32ST14 CCA32ST15
Electrical Frequency Range		1575.42 +/- 1.02 MHz	
Polarization		Right-hand circular	
Total Gain (@ 90° elevation angle)		38 dB(typical) 30 dB (MIN)	
Attenuation		60dB(min) at 1575.42 +/- 50 MHz	
Noise Figure		1.8dB (TYPICAL) 2.2 dB (MAX.)	
VSWR		1.5 (TYPICAL) 2.5 (MAX)	
Power	Operating Voltage	3.5 -6.0 VDC	
	Operating Current	20mA (TYPICAL) 27mA (MAX)	
Environmental	Operating Temperature	-40 to +85°C	
	RoHS Compliant	YES	
	Lightening Surge Protection	80V (TYPICAL) for IEC61000-4-5 standard	4000V (TYPICAL) for IEC61000-4-5 standard



VIC100 GPS Antenna Dimensions



VIC100 Jr GPS Antenna Dimensions





North America

Europe

Asia Pacific

China

Japan

Panasonic Electric Works

Please contact our Global Sales Companies in:

Europe

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