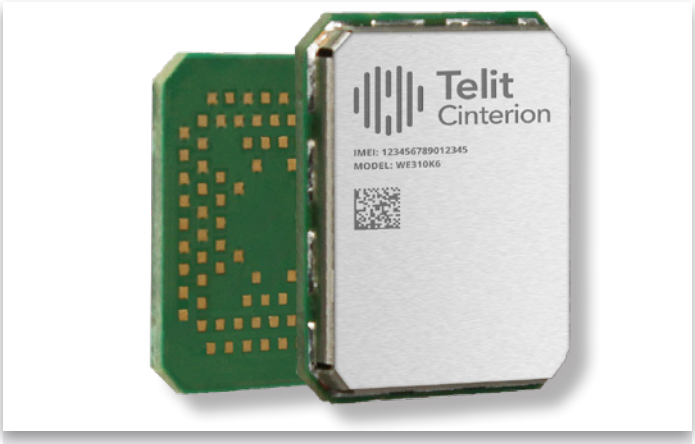
AVE SIGNALS

ADDED VALUE ELECTRONICS

Where *specials* are common and *common* is special



WE310K6
Wi-Fi 802.11 a/b/g/n/ac/ax
Bluetooth® Dual-Mode

The WE310K6-P is a fully integrated dual band, dual stream (2×2) combo Wi-Fi 6/Bluetooth® Dual-Mode companion module, that provides an easy, cost-effective way for your application to add wireless connectivity.

The Module is IEEE 802.11 a/b/g/n/ac/ax & Bluetooth® certified and comply with Wi-Fi Alliance & BT SIG-v5.2 requirements

Key Features

- Dual-band (2.4 GHz/5 GHz) and Bluetooth® Dual-Mode companion module, 2x2 MU-MIMO
- Dual-stream spatial multiplexing up to 1201 Mbps data rate
- Bluetooth® LE (qualified against Bluetooth® Core 5.2)
- LE AUDIO Isochronous Channel (CIS) support
- Wi-Fi 802.11 a/b/g/n/ac/ax
- Advanced security features (including WPA3) with integrated crypto hardware
- Industrial grade temperature range (-40°/+85°C)
- Certified Module

Amongst others applications for:

- Industrial
- Automotive
- Health Care & Medical
- Smart Home

Telit Cinterion

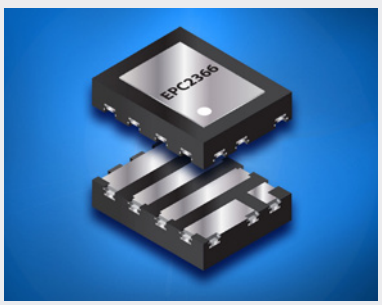
EPC91121 Motor Drive with EPC2366 GaN power transistors

EPC91121 BLDC Motor Drive Evaluation Board with EPC's Seventh-generation GaN technology EPC2366

Measuring 79 mm × 80 mm, the EPC91121 is engineered for rapid prototyping of advanced motor drive architectures in applications such as drones, robotics, industrial automation, handheld power tools, and other compact electromechanical systems where high efficiency and power density are critical.

Specification of the used EPC2366:

- Package Size: 3.3 x 2.6 mm
- VDS 40 V
- Typical RDS(on) 0.84 mΩ
- ID up to 88 A continuous
- Pulsed ID even up to 360 A
- Ultra-low QG for high frequency
- RON x QG Figure of Merit (12.6 mΩ nC)
- PQFN package with backside thermal pad
- No reverse recovery



EPC EFFICIENT POWER CONVERSION

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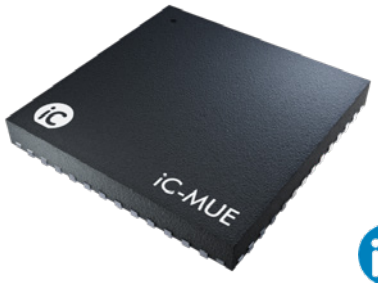


Magnetic Off-Axis Encoder

The iC-MUE is a magnetic Hall-based off-axis absolute position encoder (dual-track) designed for rotary or linear position sensing and motor feedback applications.

This SoC interpolator provides up to 21-bits angular resolution with Ø44mm magnetic scale by up to 32 pole pairs code disc.

Key Features:

- Operation voltage (3.0V - 5V, ~65mA typical)
- Wide temperature range – 40°C to +125°C
- 48 pins QFN package (7mm×7mm×0.9mm)
- Auto-adjustment and digital angle correction
- Automatic gain control (AGC)
- Interfaces: ADI, BiSS, SSI, I2C and SPI
- Sin/Cos output driver (250mV/6mA or 1V/1mA)
- FlexCount® for programmable ABZ output
- Evaluation kits available

12-Bit Sin/Cos Interpolator

The iC-TW26 is a 12-bit optical interpolator designed for rotary and linear encoders as well as magnetic or optical sin/cos sensor interfaces.

This versatile encoder IC features integrated programmable EEPROM and built-in cable drivers, reducing the need for external components and simplifying system design.

Key Features:

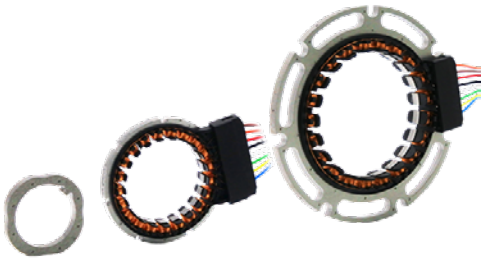
- Self-calibration (amplitude, offset, and phase compensation)
- Low power operation (3.3V - 5V, ~6mA typical)
- Wide temperature range – 40°C to +125°C
- Max. input frequency 350 kHz with input amplitude 15mV to 2V
- Differential push-pull driver (±10mA)
- 24 pins QFN package (4mm×4mm×0.9mm)
- For precision position systems & motion control

Low Voltage Capacitors

Kendeil introduces the new K62 and K63 electrolytic capacitor series, covering the 16V to 100V range for professional SMPS, DC link, filtering applications and power electronics.

The K62 and K63 series deliver outstanding reliability and electrical stability for power conversion and energy filtering systems. Both series offer very high capacitance per unit volume, low ESR, and high ripple current capability, ensuring efficient operation and long service life while reducing losses and power dissipation.

K62 series	K63 series
Up to 1.300.000 uF	Up to 680.000 µF
-40°C to +85 °C	-40°C to +105°C
Up to 12k hrs @ 85 °C	Up to 5k hrs @ 105°C



Precision Angle Sensor

Tamagawa introduces the new TSY7020 and TSY7030 series Doublesyn resolvers, offering high precision rotational angle detection with built-in redundancy.

In additional to their compact and flat design, Doublesyn resolvers provide high accuracy, improved noise immunity, and excellent reliability under harsh environmental conditions.

TSY7020	TSY7030
Stator outer Ø 52 mm	Stator outer Ø 101 mm
Rotor outer Ø 25 mm	Stator outer Ø 45 mm
-40 to +150°C	-40 to +150°C
Thickness of the Rotor and Stator 4mm	
Accuracy (Width) ± 7,5 arcminutes Max	

Resolver-to-Digital converters such as the VRDC AUA6800 or ASIC AUA6870 can be used to interface with these sensors.

MPI-N400 Series - Next-Gen 3" x 5" Fanless 400W Power Supply

The MPI-N400 Series with an industry-leading output of 400W at 50°C and 260W at 70°C in 3"x 5".

Features:

- Input: 85-264VAC
- Fanless Power Supply Design.
- Output: Single +12V/24V/48VDC
- Compact size 3" x 5"
- Convection cooling 400W at 50°C
- 65% load at 70 °C
- Operating temperature -20~80°C
- PG/PF Signal

MAGIC POWER
Innovative Power Supply Solutions

For space: VSCPL1210SG Point of Load DC-DC Converter

VSCPL1210SG is a commercial off the shelf DC-DC converter designed for 'NewSpace' market.

Features:

- Operates from 4.5 – 13.2 V input
- Adjustable Output from 0.6 – 5 V
- Up to 10 Amps Output
- Peak efficiency up to 95%
- Short Circuit Protection
- Guaranteed TID performance to 30 krad(Si) including LDR
- Continuous operation range of -55 °C to +105
- SEE tested to 42 MeV/mg/cm2

VPT

TMR 8WI Series - 8W Wide 4:1 input DC/DC with high power density.

Ultra-compact SIP-8 Watt DC/DC converters with a wide 4:1 input range.

Features:

- Ultra-compact 8 Watt converter in SIP-8 casing
- High power density of 3,12W/cm³
- Wide 4:1 input voltage ranges
- I/O-isolation 1500 VDC
- High efficiency (up to 88%) for low thermal loss
- Operating temperature range -40°C to +75°C (without derating)
- Fully regulated outputs
- Remote On/Off control
- Indefinite short circuit protection

TRACO POWER

TXN-Series – Metal Enclosed AC/DC Power Supply from 25W to 1.000W

TXN-series Metal Enclosed AC/DC cost sensitive Power Supplies from 25W to 1.000W.

Features:

- Industrial AC/DC power supplies for cost sensitive applications (25W - 1.000W)
- Operating temperature range –30°C to +70°C
- I/O reinforced isolation 3000 VAC
- Universal Input 90–264 VAC
- Internal EN 55032 class B filter
- Active PFC >0.9, compliance to EN 61000-3-2
- High efficiency up to 92%
- Short circuit, overvoltage and overload protected
- IEC/EN/UL 62368-1 safety approvals.

TRACO POWER

High gain GNSS multi-constellation for continuous outdoor usage

The HIGAIN-RTK is a very high gain multi-constellation antenna for outdoor pole-mount deployment receiving GPS L1 L2 L5, GLONASS, Galileo and Beidou signals.

With effective gain of 41 dBi for GPS L1, GLONASS G1, GALILEO E2-L1-E1 and BEIDOU B1 and an effective gain of 39 dB for GPS L2, L5, GLONASS G2, GALILEO E5A, E5B, E6 and BEIDUO B2 and B3, the HIGAIN-RTK offers flexibility allowing the antenna to be installed some distance from the receiver using low loss cables.

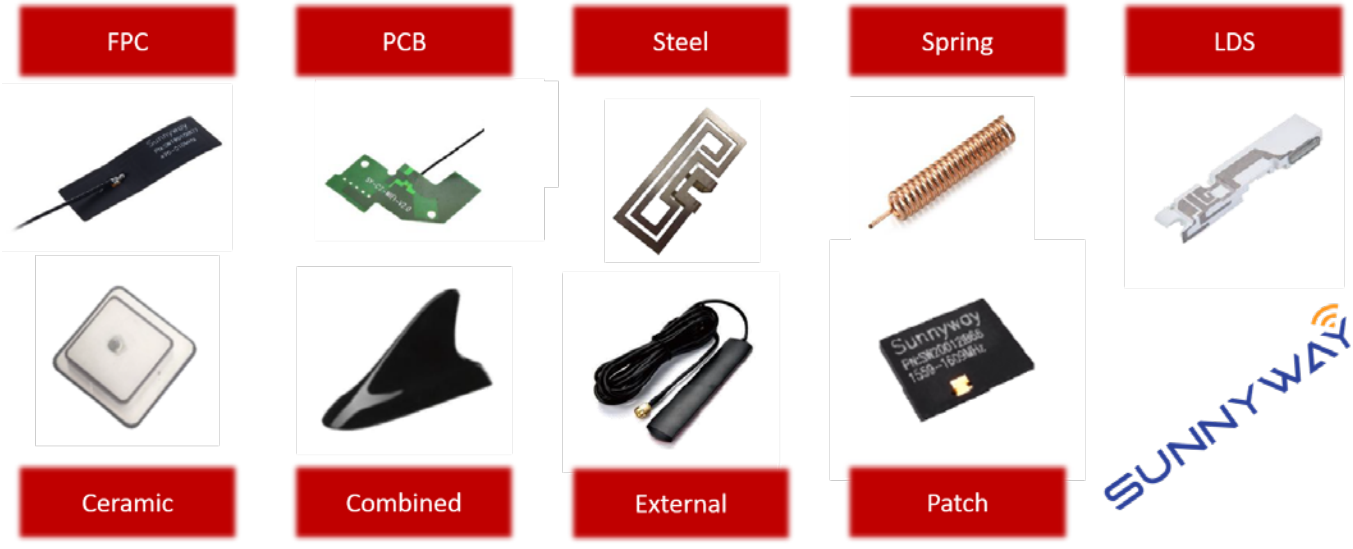
- IP67 Rated / Pole Mount
- VSWR <1.5:1
- Polarization RHCP
- Impedance 50 Ohms

SE868K5D Multiconstellation, Multifrequency Positioning GNSS

Using two frequencies (i.e., L1/E1 and L5/E5) enhances location accuracy and reduces multipath effects in urban areas. It improves position reporting and navigation solution performance significantly.

Features:

- 32-pad QFN-like package
- Frequency bands: GPS/QZSS L1 + L5, Galileo E1 + E5, GLONASS L1, BeiDou B1 + B2
  75 (L1-band) / 60 (L5-band) tracking channels
- Jamming rejection
- Low power modes
- A-GNSS: Self-generated prediction and ephemeris file injection
- Dimensions: 11 x 11 x 2.8 mm
- Temperature range: -40 °C to +85°C



Broad range of IOT Antennas

AVE started as distributor for Sunnyway IOT antennas who have excellent R&D facilities to optimize your antenna in your design.

With more that 80 experienced RF engineers, more that 10 OTA chambers and nearly 100 state of the art RF equipment they can do magic for your antenna needs, They also have a very broad range of standard products. They rely on a professional team and MES management system to ensure full traceability and a 10,000-level dust-free workshop and SMT production line ensure product reliability.

The IOT antennas are suitable for the following markets:

- Smart Home, Smart Security, Smart City
- Smart Health, Smart Energy, IOV
- Smart Life, Wireless Payment
- Smart Agriculture, Smart Industry

Please visit our website to download the latest antenna catalogue with the available standard products.