

E05866

TECHNICAL DATASHEET

INDUSTRIAL 4G/5G RUGGED MODEM

The E05866 4G/5G rugged modem from Ambra Solutions is a wireless device that meets your Ethernet connectivity needs. It provides bandwidth for your data-intensive solutions and integrates other features, such as multiple I/O, CAN bus, ignition input, BLE and GPS. These features make it one of the most flexible devices on the market and make it compatible with Ambra Solutions' iPS tracking solution for fleet and equipment geolocation.

FEATURES AND BENEFITS

- Robust housing for industrial applications, harsh outdoor environments and mining activities.
- 4G/5G LTE modem
- iPS ready for indoor and outdoor asset tracking.
- Linux-based operating system.
- Layer 2 tunneling.
- Web-based UI for device configuration and management.



FREQUENCY BANDS

Model	E05866
Category	5G NR and LTE CAT20
GNSS Support	GPS, GLONASS, Galileo, BeiDou, QZSS
Supported Bands	5G FR1 bands: n1, n2, n3, n5, n7, n8, n20, n25, n28, n30, n38, n40, n41, n48, n66, n71, n75, n77, n78, n79 SA + NSA default off - n12, n13, n14, n18, n26, n29, n48, n75, n76 LTE bands: B1, B2(B25), B3, B4(B66), B26(B5, B18, B19), B7, B8, B12(B17), B13, B14, B20, B28, B29(DL), B30, B32(DL), B34, B38, B39, B40, B41, B42, B43, B46(LAA), B48(CBRS), B66, B71

PRODUCT PINOUT

J1 (PWR+CAN) - M12-5 Series	Power + / 10 VDC to 60 VDC; OVP 200 VDC Input voltage reverse and transient protection Typical operating power: 11 W @ 25 °C IGN (ignition) input Power - / Battery GND CAN Lo / Either CAN (250, 500, 1000) CAN Hi / Direct contact CAN	Ethernet - ETH0	10BASE-T, 100BASE-TX or 1000BASE-T Ethernet port passive PoE input voltage range between 36 V and 57 V M-12 X-coded connector
J2 GPIO	The J2/GPIO M12 A-coded 8 positions connector can be ordered in various I/O configurations: - RS232 @ TTL 3V3	Ethernet - ETH1	10BASE-T, 100BASE-TX or 1000BASE-T Ethernet port passive PoE input voltage range between 10 V and 60 V M-12 X-coded connector
RF Connectors	Antenna 1-2-3-4: N-Type Bluetooth: N-Type GPS - TNC	Ethernet - ETH2-3	10BASE-T, 100BASE-TX or 1000BASE-T M-12 X-coded connector

SPECIFICATIONS AND SENSORS

Environmental		Mechanical		Sensors	
Operating Temperature	-40°C to 70°C	Housing Material	Anodized aluminium, blue	Temperature Sensor	Accelerometer
Storage Temperature	-40°C to 85°C	Dimensions	160 mm x 215 mm	Voltage Sensor	Pressure Sensor
Ingress Protection	IP67	Weight	2.7 lb	Gyroscope	Magnetometer
EMC	IEC/EN 61000-6-3				

INFORMATIONS DE COMMANDE

Product Number	Description
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