



AMBRA SOLUTIONS

E04866

TECHNICAL DATASHEET

INDUSTRIAL 4G/5G RUGGED MODEM



The Industrial 4G/5G Rugged modem is Ambra Solutions' feature filled wireless device to meet your ethernet over 4G/5G connectivity requirements. It provides the data bandwidth for your data intensive solutions as well as integrating other functionalities, such as multiple I/O, CAN bus, Ignition input, BLE and GPS. These functionalities which make it one of the most flexible devices on the market as well as making it compatible with Ambra Solutions' proprietary iPS tracking solution for fleet and asset geo tracking capabilities.

FEATURES AND BENEFITS

- Rugged Enclosure for industrial, outdoor harsh environment and mining applications
- 4G / 5G modem
- iPS ready for asset tracking indoor and outdoor
- Linux Based Open WRT OS
- Layer 2 tunneling
- Web UI for device configuration and management

FREQUENCY BANDS

Model	E04866
Category	5G NR & 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 + / 8VDC to 60VDC; OVP 200VDC Input Voltage Reverse and Transient Protection; Typical operating power 11W @25C IGN (Ignition) input Power - / Battery GND CAN Lo / Either CAN (250, 500, 1000) Can Hi / Either CAN	Ethernet - ETH1	10BASE-T, 100BASE-TX or 1000BASE-T M-12 X-Coded connector
J2 GPIO	The J2/GPIO connector can be ordred in various I/O configuration : - RS232 @TTL 3V3 - M12 A-Coded 8 positions connector	Ethernet - ETH2	10BASE-T, 100BASE-TX or 1000BASE-T Ethernet Port Passive PoE Input Voltage Range 10 to 60V M-12 X-Coded connector
RF Connectors	Antenna 1-2-3-4 : N-Type Bluetooth - N-Type GPS - TNC	Ethernet - ETH3-4	10BASE-T, 100BASE-TX or 1000BASE-T Ethernet Port 802.3at PoE+ Input Voltage Range 37 to 57V M-12 X-Coded connector

SPECIFICATIONS

Environmental		Mechanical		Sensors	
Operating Temperature	-40°C to 70°C	Case Material	Aluminium blue anodized	Temperature monitor	Accelerometer
Storage Temperature	-40°C to 85°C	Dimensions	160mm x 215mm	Voltage monitor	Pressure sensor
Ingress Protection	IP67	Weight	2,7 lbs	Gyroscope	
EMC	IEC/EN 61000-6-3			Magnetometer	

EMBEDDED SENSORS

ORDERING INFORMATION

CAT Type	4 Ethernet ports
CAT20 (4G + 5G)	E04866-04-00-05-ES (4G) E04866-04-01-05-ES (4G + Wifi) E04866-05-00-05-ES (5G) E04866-05-01-05-ES (5G + Wifi)