

Trucking / Automotive Solutions

Data Communications Network for Tractors and Trailers

SM2400A is an advanced System-On-Chip (SoC) with modern OFDM technology to support communication schemes for Tractor and Trailer applications. SM2400A provides interoperability in industry compliant ABS brake solutions as well as the capability to establish data communication networks for other sensors and controls requiring robust high data rates and security encryption.

Available in both Semitech's Chip or Module solutions in Extended Temperature Range (-40°C to 105°C)

Applications

- Trailer ABS Systems
- Trailer Sensor and Control Networks
- Tractor / Trailer Identification
- Industrial Mobility / Automotive Chargers

Supported Comms. Protocols

- PLC4TRUCKS / J2497 compliant
- G3-PLC – Full mesh networking; J2497 co-existence
- XXR – eXtra eXtra Robust mode

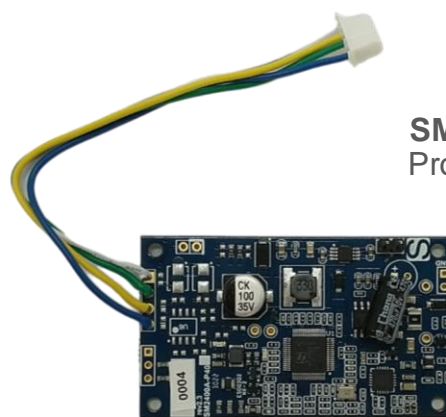


SM2400A-P40 Module Features

- Turnkey solution
- Simple 4 pin connector – PWR, GND, TX, RX
- UART interface
- Optional SPI and RS485 interfaces
- TX / RX LED indicators
- Operating voltage range: 8VDC ~ 24VDC
- Size: 60mm x 35mm x 8.2mm

SM2400A Chip Capabilities

- Multiple protocol support on one platform
 - Full J2497 compliance and J1587 ABS Reader commands
 - XXR mode for error free comms in noisy environments
 - SpeedLink mode for high data rate P2P
 - Mesh networking with IPv6 option
- Secure comms using AES-128 / 256 bit encryption engine
- Simple Serial Protocol API



SM2400A-P40-Rev2.3
Production-Ready PLC
Module



SM2400A-MQEQ-Y
Modem Chip