

STAR★MODEM™

Industrial Narrow Band Radio Modem



General Description

The new STAR★Modem™ is an industrial radio modem that enables wireless communication between Datalogic narrow band RF devices and a host system. In a basic point-to-point configuration, it transmits via radio any terminated string received through its RS232 port and vice versa.

To satisfy different user needs and cover a wide range of applications, STAR★Modem™ makes it possible for any wired RS232 device to become wireless: bar code printers, industrial scales, industrial scanners can send/receive data to/from the Datalogic STAR-System™ like a RF device, exploiting all the benefits of the most powerful RF Narrow band solution for Mobile applications. It can work with: Gryphon™ M, Dragon™ M and all the Formula Basic Line RF Terminals.

Robustness and reliability, together with real-time communication are key features that make the STAR★Modem™ unique. Many processes in the Manufacturing industry as well as in the Distribution & Retail Industry, take place in harsh environments: STAR★Modem™, specifically conceived for tough industrial use, can operate in all environmental conditions including in outdoor applications without compromising its functionalities.

Furthermore, STAR★Modem™ has been conceived for forklift applications and, therefore, it can be mounted on a forklift without compromising its performances, resisting vibrations and any mechanical stress, demonstrated by several tests that have been successfully executed. The concept of total mobility is further exploited by the Automatic Roaming function.

Thanks to its small size, its adjustable antenna and the brackets included, STAR★Modem™ guarantees the best positioning according to your application needs, even in the most critical places, without any restriction.

STAR★Modem™: wireless data communication whenever mobility is a must.

Features

- > Radio Receiver & Transmitter
- > Seamless active roaming
- > Compatible with STAR-System™
- > Industrial Case IP64
- > Conformance to:
 - Vibrations: EN 60068-2-6 Test FC
 - EN 60068-2-64 Test FH
 - Shocks: EN 60068-2-27 Test EA
- > Extended Power Supply range
- > Multi-interface
- > Includes the new DL Sm@rtSet™

Applications

- > Forklift
- > Industrial & Outdoor data collection
- > Warehouse management
- > Shop Floor
- > General use in harsh environments

Specifications

ELECTRICAL CHARACTERISTICS

POWER SUPPLY 10 to 30 Vdc; 5 Vdc (depending on model)
 POWER CONSUMPTION 2 W

RADIO

RADIO FREQUENCY 433.92 MHz
 DATA TRANSFER RATE up to 19200 baud
 RADIO POWER OUTPUT <10 mW
 RADIO RANGE 50 m / 164 ft
 ROAMING Seamless Active Roaming
 ACCESS PROTOCOL CSMA/CA
 CONFORMITY ETSI standard EN300 220-3
 SYSTEM CONFIGURATION Maximum 32 devices per STAR-Modem™

MECHANICAL CHARACTERISTICS

DIMENSIONS 68 x 84 x 34 mm / 2.68 x 3.3 x 1.3 in (without antenna)
 WEIGHT 370 g / 13.1 oz
 LED INDICATOR Power On (green); TX/RX (yellow); Status (red)

ENVIRONMENT

OPERATING TEMPERATURE -10° to +50 °C / +14° to +122 °F
 STORAGE TEMPERATURE -20° to +70 °C / -4° to +158 °F
 HUMIDITY 90% non condensing
 ENVIRONMENTAL PROTECTION IP64



Adjustable antenna for easy installation

Application Examples



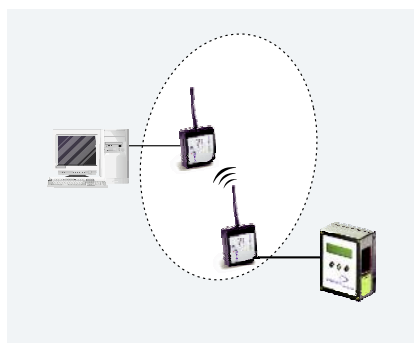
Fork-lift truck terminals with Datalogic RF readers



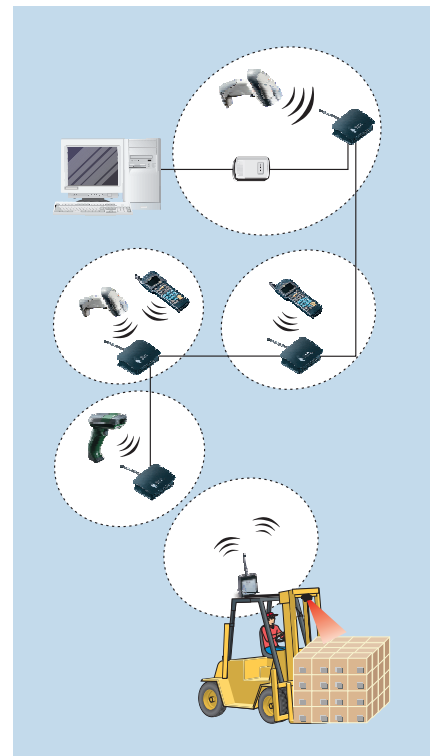
Wireless printing



Wedge emulation interface for PDC basic line RF terminals



Wireless USS Scanners



Wireless USS scanners on forklifts with full mobility