

U-510 series ICs



CHIPS
TOOLS
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The **U-510 series**

of integrated circuits are protocol chips designed to meet the requirements of control networks in residential, commercial, utility, industrial, and transportation markets. They embed the entire PowerBus™ protocol stack, from physical to application layers, in flash memory. Physical layers for the AC power line, DC power line and twisted pair media are provided. The U-510 series ICs support the services required by the various PowerBus™ device roles: Logical Network manager, Subnet manager and PowerBus™ node. The tools found in the PowerBus™ Starter Kit provide the environment to quickly develop everyday devices for control networks around U-510 series ICs.

The Domosys **U-510 series ICs** embed technology for communication over the AC power line provided under license from IntraCoastal System Engineering Corporation.

BENEFITS

- ▶ Low cost per node through single protocol chip solution
- ▶ Reliable communication over the power line
- ▶ Multi-level encryption for network security
- ▶ Remote upgrade of IC firmware in flash memory
- ▶ Compliance with world-wide emission standards
- ▶ Support from a complete development tool environment
- ▶ Automatic device configuration and discovery



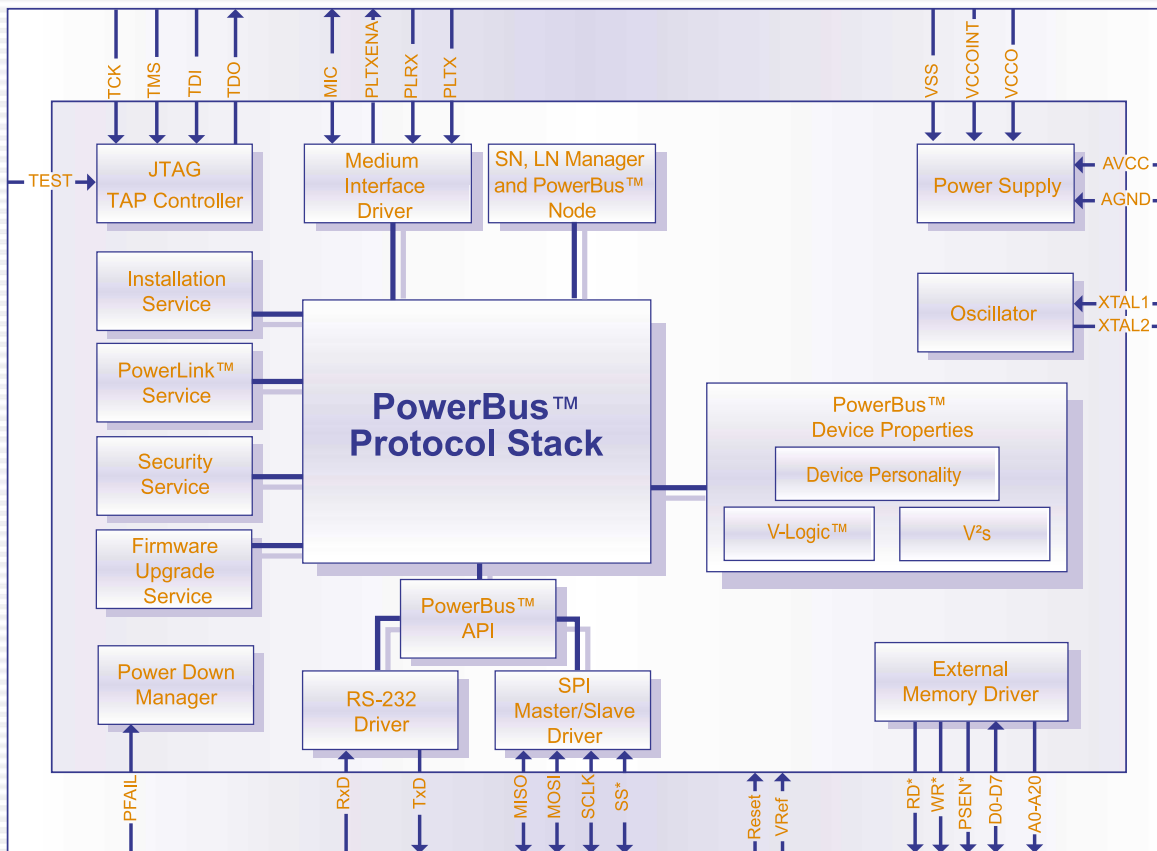
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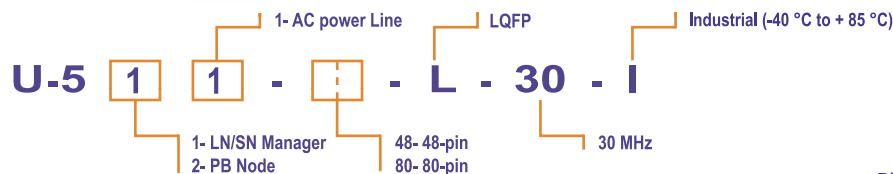
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FEATURES

- Physical layers: AC power line, DC power line and twisted pair
- Various network management functions
- Field programmable scenario generation
- Dynamic repeater in each node
- 80-bit key encryption algorithm
- 22-byte distinct IC serial number
- Flash programming via medium, RS-232 and JTAG
- Serial interfaces: RS-232 and SPI
- Package: 80-pin LQFP
- Operating temperature range: -40°C to +85°C

ORDERING INFORMATION



Please contact your account manager for the latest information on this product.



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