

DIGI INTERNATIONAL - DC-ME-9210-LX 9210 - Jump Start Kit

Overview:

This kit is a JumpStart Kit of Digi Connect ME 9210(module) with Digi Embedded Linux, Eclipse-based Digi ESP IDE, LiveDVD, and installation and setup support package.

The Digi Connect ME 9210 is an ultra-compact embedded module based on Digi's powerful 75 MHz NS9210 processor. It allows customers to implement the next generation of leading network-enabled products and maintains full form factor and pin-compatibility with the existing Digi Connect ME family.

The module can provide future application-specific interface options (1-Wire, UART, USB low-speed, SD/SDIO, CAN, etc.) through its programmable Flexible Interface Module (FIM), while still keeping the main serial port or other key peripheral interfaces available. It is also well-suited for more advanced core module applications, with its support of up to ten shared GPIOs, external IRQs and an extended set of peripheral interface options such as I2C and SPI.

The Digi JumpStart Kits® for the Digi Connect ME 9210 are cost-effective and easy to use. They leverage the readily available library of software and community support of the Linux® environment.



Kit Contents:

The items in the Development Kit and their use are as follows.

- Quick Start Guide
- Digi Connect ME module w/JTAG
 - 75 MHz NS9210, 4MB Flash, 8MB SDRAM
- Digi JumpStart Kit Development Board

- RS-232 serial port, GPIO screw terminal, test points,
- Application connectors, prototyping area,
- RS-232 console port (JTAG), 9-30VDC power supply
- Digi Embedded Linux DVD
 - Digi Embedded Linux, Digi ESP IDE,
 - Source code, boot loader source code, sample code
- Documentation and development board schematics
- Power supply and accessories
 - External wall power supply with adapters
 - Ethernet cable, serial cable

Key Features of Digi Connect ME 9210:

- Compact ARM9 embedded module in RJ-45 form factor
- Footprint-compatible with Digi Connect ME module
- Integrated 10/100 Mbit Ethernet interface
- 802.3af compliant PoE pass-thru
- On-chip hardware encryption engine
- Extended set of on-chip interfaces and signals
- Power management modes
- Low-emission design (FCC Class B)
- Seamless migration to NET+ARM chip design

Ordering Information:

Products:

Part Number	Manufacturer	Farnell P/N	Newark P/N
DC-ME-9210-LX	Digi International	1706339	08R5620

Associated Products:

Part Number	Manufacturer	Description	Farnell P/N	Newark P/N
DC-ME-Y402-LX	Digi International	Digi Connect ME 9210 w/4 MB flash, 8 MB SDRAM, and JTAG	1706340	08R5619

		connector		
DC-ME-Y402-C	Digi International	Digi Connect ME 9210 w/4 MB Flash, 8 MB RAM, without JTAG connector	1706343	08R5618

Similar Products:

Part Number	Manufacturer	Description	Support Device	Farnell P/N	Newark P/N
DC-ME-9210-NET	Digi International	Digi Connect ME 9210 Digi JumpStart Kit for NET+OS 7	NS9210	1706341	08R5621

Document List:

Datasheet:

Part Number	Description	Size
DC-ME-9210-LX	Digi Connect ME@ 9210 flexible and Secure Embedded Module	2.11MB
NS9210/NS9215	32-bit NET+ARM Processor Family	2.31MB
NC7S00	TinyLogic@ HS 2-Input NAND Gate	154KB
ICL3245E	1Microamp, 1Mbps, RS-232 Transceivers with Enhanced Automatic Power down	445KB
MAX3227	1Mbps, 3.0V to 5.5V, RS-232 Transceivers with Auto Shutdown Plus	1.19MB
STT2PF60L	P-CHANNEL 60V - 0.20Ω - 2A - SOT-23-6L STripFET™ II Power MOSFET	235KB
SN74LVT240A	3.3V ABT Octal Buffer/Driver with 3-State Outputs	484KB

Application Notes:

File Name	Size
Digi Connect ME® & Digi Connect® Wi-ME Digi Connect ME® 9210 Hardware Reference	1.39MB
Digi NS9210 Hardware Reference	2.58MB
Fairchild NC7S00 TinyLogic HS 2-Input NAND Gate	143KB
Intersil 3V to +5.5V, 250k-1Mbps RS-232 Transmitters, Receivers	99KB
Maxim Determining Clock Accuracy Requirements for UART Communications	170KB
TI Power-Up 3-State (PU3S) Circuits in TI Standard Logic Devices	210KB

Hardware & Software:

File Name	Size
3D Model File (.igs format)	3.6MB
Digi Connect ME (9210) development board schematics	85KB
Digi Connect ME(9210) development board BOM	45KB

Others Resources:

File Name	Size
Digi Embedded Linux	873KB
Digi ESP	6.12MB
NET+OS	1.27MB
NS7520 to NS9210 Migration Guide	513KB
NS7520 to NS9210 Migration Schematics	39KB