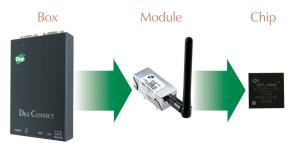


Wired and Wireless Embedded Modules

The industry's first interchangeable wired and wireless embedded modules with plugand-play functionality and comprehensive development tools make it easy to add embedded web-enabled wired and wireless network connectivity.



Seamless migration to total integration Future proof protection - software development migrates fully to chip solutions.

Features/Benefits

- Interchangeable and pin-compatible single-component solution based on 32-bit NET+ARM processor
- 2MB/4MB Flash and 8MB RAM on board
- High-speed TTL serial interface with up to 230 Kbps throughput
- Wireless Ethernet network interface
 802.11b network interface with data rates up to 11 Mbps
 - WPA security and WEP encryption
 - FCC module approval improves time-to-market
- Wired Ethernet network interface
 Auto-sensing 10/100Base-T
 - network interface

 Innovative power pass-through option for network powered
 - products
- Five shared GPIO port options
- Low power consumption and industrial temperature range
- Strong SSL/TLS encryption for security sensitive environments
- Plug-and-play firmware option eliminates embedded software development effort
- Easy-to-use and royalty-free NET+Works development platform for custom application development

Overview

The advances of personal computers and the proliferation of the Internet have laid the groundwork for an era in which billions of networked electronic devices will work invisibly and jointly with each other and with people. The introduction of wireless technology into this rapidly emerging world of ubiquitous networking creates a new dimension of network collaboration that complements existing wired infrastructures. Making the right network technology decisions is a key factor for market success and defines the competitive edge of your products.

The Digi Connect ME family of secure embedded modules enables original equipment manufacturers to keep pace with ever-evolving networking technology by delivering complete and versatile embedded network connectivity solutions. They are cost-effective and easy to implement in existing and new product designs, while powerful enough to meet your future product performance needs.

Based on a unique common platform design approach, the Digi Connect ME and Digi Connect Wi-ME embedded modules offer complete "drop-in" integration. This allows you to build future-proof products based on a single design supporting wired 10/100Base-T and 802.11b wireless Ethernet connectivity. The Digi Connect embedded modules make all of this possible without the traditional complexities of hardware and software integration work, and at a fraction of the time and cost required to create custom solutions.

Built on leading NetSilicon 32-bit NET+ARM technology, the Digi Connect ME embedded modules also provide a seamless migration path to a fully integrated system-on-chip solution. They combine true plug-and-play functionality with the freedom and flexibility of complete software customization using the proven NetSilicon NET+Works® development platform.

An integration kit and a complete development kit containing a development board, documentation, sample code, cables and accessories are available for evaluation and development use.

Please contact us at 1-877-OEM-DIGI or 952-912-3444 for additional information or to discuss your specific application requirements.

Connectware[™]

www.digi.com

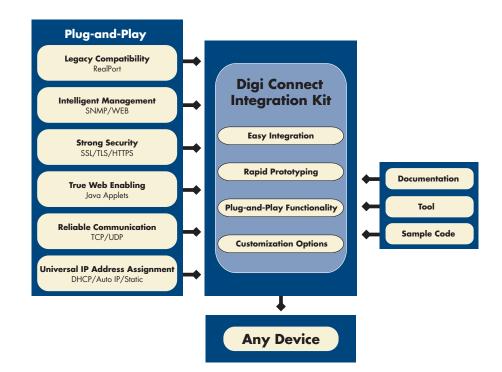


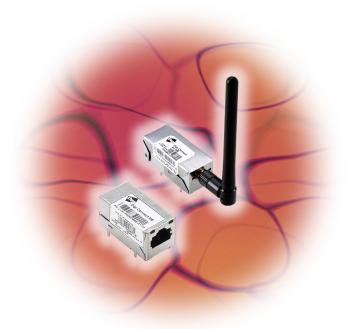
Plug-and-Play Modules

The Digi Connect ME and Digi Connect Wi-ME embedded modules with plug-and-play firmware dramatically reduce time-to-market by eliminating the need for embedded hardware and software development. They deliver instant and completely transparent wired and wireless device server networking functionality, with the flexibility of web-based customization options.

Unique and industry-leading features such as a robust TCP/IP stack, universal IP address assignment, integrated web server with user file system, fully customizable web user interface, custom Java applet support, enhanced security with strong DES/3DES/AES encryption based on the SSL/TLS standard, intelligent device management via SNMP, and patented RealPort® COM/TTY port redirection make it an ideal solution for any application that requires versatility and performance.

The Digi Connect Integration Kit provides a platform for evaluation, rapid prototyping, and integration of Digi Connect embedded modules with plug-and-play firmware. It offers all tools, sample code, and documentation that make product integration and web-based product customization possible.







SOFTWARE FEATURES

- Robust on-board TCP/IP stack with built-in web server
 - TCP, UDP, DHCP, SNMP, SSL/TLS, Telnet, Rlogin, RFC 2217, LPD, HTTP/HTTPS, SMTP, ICMP, IGMP, ARP
- Universal IP address assignment
 - Static IP, DHCP, Auto-IP
- Secure web-based configuration (HTTP/HTTPS) with context-sensitive online help
- Pre-defined and custom device profiles
- Customizable web interface option with support for Java applets
 - File system w/512kb user space
- Telnet Command Line Interface
- Modem Emulation
- Low-level serial configuration interface (RCI)
- User-defined network service/port configuration
 - HTTP/HTTPS, Telnet, Rlogin, ADDP, SNMP, RealPort, SSL/TLS, TCP/UDP
- TCP/UDP forwarding characteristics
- Bytes, Idle Time, Data Pattern
- User-configurable TCP/UDP Socket ID string
- Event notification via E-mail/SNMP traps
 - GPIO Status, Data Pattern
- Port logging
- Intelligent SNMP device management
 - RFC 1213/1215/1316/1317
- Strong SSL v3.0/TLS v1.0 based encryption
 - DES (56-bit), 3DES (168-bit),
 AES (128/256-bit)
- Patented RealPort® COM/TTY port redirection with encryption for Microsoft Windows, UNIX, and Linux environments



DEVELOPMENT KIT FEATURES

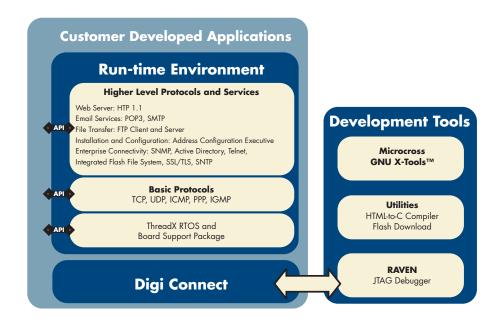
- Digi Connect embedded module w/JTAG
- · Development board
- · Macgraigor Raven JTAG debugger
- Microcross[™] GNU X-Tools with command line and visual GDB debugger
- ThreadX Realtime Operating System with picokernel™ architecture
 - Requires less than 25 kb kernel code space
- FusionTM TCP/IP stack with full networking protocol and extended network services support
 - TCP, UDP, ICMP, IGMP, DNS, SNMPv2, LDAP, POP, SMTP, PPP, FTP, SNTP, Telnet, FastIP, Fast Sockets, Multi-Homing
- Universal IP address assignment through Address Configuration Executive (ACE)
 - Static IP, DHCP, BOOTP, Auto-IP, RARP, ARP/Ping (ARP-Ping?)
- Allegro Software Embedded Web Server
- SSL 3.0/TLS 1.0 with strong encryption
 - DES, 3DES, AES
- Flexible and robust file system supporting RAM and Flash (with wear leveling)
- · SMICng MIB Compiler
- Micro XML SAX Parser
- Additional utilities
 - HTML-to-C Compiler
 - Flash download
 - Sample code
- Documentation
 - Hardware reference manual
 - Programmer's guide
 - API reference
 - Advanced web server toolkit

Customizable Modules

The customizable versions of the Digi Connect ME and Digi Connect Wi-ME embedded modules enable customers to quickly and cost-effectively implement and deploy application-specific and future-proof embedded software solutions for wired and wireless network environments, without the additional complexities of traditional hardware design efforts.

Based on the easy-to-use and royalty-free NetSilicon NET+Works development platform, the Digi Connect Development Kit delivers a complete out-of-the-box solution for embedded software development. It includes all the integrated building blocks that are required to quickly and cost-effectively create secure and fully network-enabled product solutions.

The common NetSilicon development platform minimizes design risk and significantly accelerates the overall embedded software development process. It provides a seamless migration path to a fully integrated NetSilicon system-on-chip solution using the award-winning family of network-enabled NET+ARM processors.



ENVIRONMENTAL PINOUTS HARDWARE 32-bit NET+ARM high-performance Diai Connect ME Description Pin Signal RISC processor (NS7520 @ 55MHz) Ambient operating temperature: 1 * VETH+ Power Pass-Thru + -40° C to +85° C (-40° F to +185° F) Digi Connect ME on-board memory 2 * VETH-Power Pass-Thru -Relative humidity: 5% to 95% 2MB Flash and 8MB RAM Position Removed 3 N/A Digi Connect Wi-ME on-board memory (non-condensing) 4 N/A Position Removed Altitude: 12,000 ft (3685 m) 4MB Flash and 8MB RAM 5 N/A Position Removed **Digi Connect Wi-ME** On-board power supervisor 6 N/A Position Removed Ambient operating temperature: High-speed TTL serial interface 7 **RXD** Receive Data (Input) -20° C to +85° C (-20° F to +185° F) Throughput up to 230 Kbps 8 Transmit Data (Output) Relative humidity: 5% to 95% Full signal support for TXD, RXD, (non-condensing) 9 RTS/GPIO4 Request to Send (Output)/GPIO RTS, CTS, DTR, DSR and DCD Altitude: 12.000 ft (3685 m) 10 DTR/GPI05 Data Terminal Ready (Output)/GPIO Hardware and software flow Clear to Send (Input)/GPIO 11 CTS/GPI02 control 12 DSR/GPIO3 Data Set Ready (Input)/GPIO Five shared General Purpose WIRELESS SECURITY DCD/GPIO1 Data Carrier Detect (Input)/GPIO 13 Input/Output (GPIO) ports 14 Wave-solderable design WEP (Wired Equivalent Privacy) RESET Reset (no clean flux process) 64/128-bit ebcryption (RCA) 15 +3.3VPower WPA (Wireless Protected Access) 16 GND Ground 128-bit TKIP encryption Reserved Reserved 17 NETWORK 802.1x EAP authentication Reserved Reserved INTERFACE PEAP (Protected EAP) Reserved Reserved w/EAP-MS-CHAPv2 20 Reserved Reserved Digi Connect ME Pre-shared key mode (PSK) *Digi Connect ME only Standard: IEEE 802.3 Samtec FTS-110-01-F-DV-TR 20-pin micro header Physical Layer: 10/100Base-T LEDS (10-pin double row) with 1.27 mm (.50") pitch, Data rate: 10/100Mbps positions 3-6 removed. (auto-sensing) Link integrity Mode: Full or half duplex Network activity REGULATORY (auto-sensing) APPROVALS (IN PROGRESS) Connector: RJ-45 **Digi Connect Wi-ME** FCC, Part 15 Class B Standard: IEEE 802.11b DIMENSIONS EN 55022, Class B Frequency: 2.4 GHz EN 61000-3-2 and EN 61000-3-3 Data rate: Up to 11 Mbps with Digi Connect ME ICES-003, Class B Length: 1.445 in (36.7 mm) automatic fallback VCCI, Class II Width: 0.75 in (19.05 mm) Modulation: CCK (11/5 Mbps), AS 3548 DQPSK (2 Mbps), DBPSK (1 Mbps) Height: 0.735 in (18.67 mm) FCC Part 15 Subpart C Transmit power: 16 dBm typical Digi Connect Wi-ME Section 15.247 Receive sensitivity: Length: 1.945 in (49.4 mm) IC (Industry Canada) RSS-210 -82 dBm @ 11 Mbps Width: 0.75 in (19.05 mm) Issue 5 Section 6.2.2(o) Antenna connector: 1 x RP-SMA Height: 0.735 in (18.67 mm) EN 300 328 EN 301 489-3 MODEL.....PART NUMBERS UL 60950-1 EN 60950 (European Union) Model CSA C22.2, No. 60950

North America

DC-ME-01T-KT

DC-WME-01T-KT

Custom Application

Digi Connect ME Development Kit Digi Connect Wi-ME Development Kit

Plug-and-Play Firmware Digi Connect ME Integration Kit

Digi Connect Wi-ME Integration Kit

Bulk packs and customer-specific packaging configurations available. Please visit our website for a complete list of available part numbers.

International

DC-ME-01T-GN DC-ME-01T-GN DC-WME-01T-GN DC-WME-01T-GN

> DC-ME-01T-KT DC-WME-01T-KT

DIGI SERVICE AND SUPPORT

You can purchase with confidence knowing that Digi is here to support you with expert technical support and a strong five-year warranty.

POWER

EN 55024

REQUIREMENTS

Digi Connect ME

3.3VDC @ 250mA typical (825mW)

Digi Connect Wi-ME

3.3VDC @ 400mA max (1.32W)

http://support.digi.com

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