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Products

Embedded Modules and Microprocessors

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Digi Connect[®] EM

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Hardware

- 32-bit NET+ARM high-performance RISC processor (NS7520 @ 55 MHz)
- On-board memory 4 MB Flash and 8 MB RAM
- On-board power supervisor
- 2 high-speed TTL serial interfaces
 - Throughput up to 230 Kbps
 - Full signal support for TXD, RXD, RTS, CTS, DTR, DSR and DCD on port 1
 - TXD / RXD signals on port 2
 - Hardware/software flow control
- Serial Peripheral Interface (SPI)
- 9 shared General Purpose Input/Output (GPIO) ports
- Wave-solderable design (no clean flux process)

Regulatory Previews

- FCC, Part 15 Class B
- EN55022, Class B
- EN61000-3-2 and EN61000-3-3
- ICES-003, Class B
- VCCI, Class II
- AS 3548
- FCC Part 15 Subpart C Section 15.247
- IC (Industry Canada) RSS-210 Issue 5 Section 6.2.2(o) EN300 328

Product Lite

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- EN301 489-3
- UL 60950-1
- EN60950 (European Union)
- CSA C22.2, No. 60950
- EN55024

Network Interface

- Standard: IEEE 802.3
- Physical Layer: 10/100Base-T
- Data rate: 10/100 Mbps (auto-sensing)
- Mode: Full or half duplex (auto-sensing)
- Connector: RJ-45 or pin header

Environmental

- Operating temperature: -40° C to +85° C (-40° F to +185° F)
- Relative humidity: 5% to 90% (non-condensing)
- Altitude: 12,000 ft (3657.6 m)

LEDs

- Link integrity
- Diagnostic
- Serial activity
- Network activity

Power Requirements

- 3.3VDC @ 270 mA max (891 mW)

Dimensions

- Digi Connect EM



- Length: 1.935 in (49.149 mm)
- Width: 1.575 in (40.005 mm)
- Height: 0.803 in (15.621 mm) (Fully Populated Model)

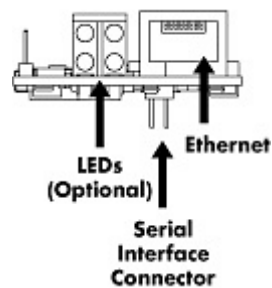
- Height: 0.670 in (17.018 mm) (Pin Header Model)

Wireless Security

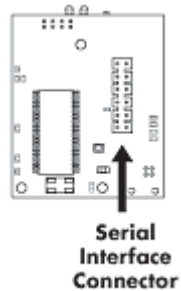
- WEP (Wired Equivalent Privacy)
 - 64/128-bit encryption (RC4)
- WPA (Wireless Protected Access)/WPA2/802.11
 - 128-bit TKIP/CCMP encryption
 - 802.1x EAP authentication
 - LEAP, PEAP, TTLS, TLS
 - GTC, MD5, OTP, PAP, CHAP, MSCHAP, MSCHAPv2, TTLS MSCHAPv2
 - Pre-shared key mode (PSK)

Line Art

- Digi Connect EM - Front



- Digi Connect EM - Bottom



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