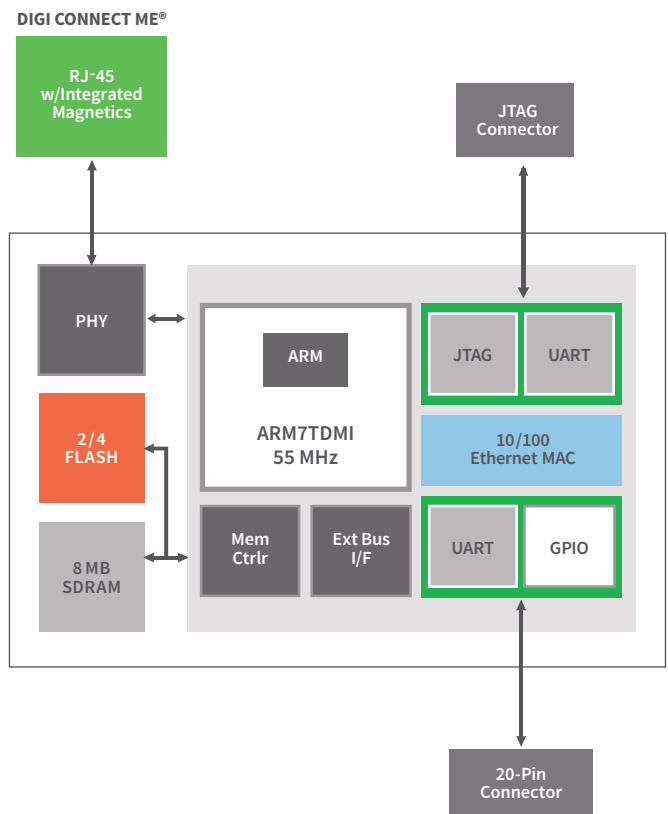# DIGI CONNECT ME

Secure device server module with plug-and-play functionality and professional development tools for custom applications

Digi Connect ME® is a secure device server module that delivers complete and versatile embedded IPv6-ready network connectivity and strong standards-based encryption services such as SSL/SSH. Built on leading Digi 32-bit NET+ARM technology, Digi Connect ME is cost effective and easy to use in existing and new product designs, while powerful enough to meet future product performance needs.

Digi Connect ME is available pre-loaded with Digi plug-and-play firmware, which eliminates software development efforts by providing powerful and configurable IPv4/IPv6 device server functionality, including an easy-to-use web user interface and security features.

Target applications include retail systems, security/access control, medical devices and building/industrial automation.

BLOCK DIAGRAM

DIGI CONNECT ME®

RJ-45 w/Integrated Magnetics

JTAG Connector

PHY

ARM

JTAG | UART

ARM7TDMI 55 MHz

2/4 FLASH

10/100 Ethernet MAC

8 MB SDRAM

Mem Ctrlr | Ext Bus I/F

UART | GPIO

20-Pin Connector

BENEFITS

– Compact and secure 32-bit device server modules

– Complete family of pin-compatible module solutions

– Integrated 10/100 Mbit Ethernet interface

– Strong enterprise-grade network security

– Highly integrated low emission design (FCC Class B)

– Extended and industrial operating temperature

– Digi processor and WLAN technology for true long-term availability

RELATED PRODUCTS

Digi Connect® ME/Wi-ME 9210

ConnectCore® 9P 9215

ConnectCard™ for i.MX28

Digi XBee®

Development Kits

HARDWARE

PROCESSOR TYPE	32-bit Digi NS7520 processor
ARM CORE	ARM7TDMI
PROCESSOR SPEED	55 MHz
MEMORY BASE POPULATION	2/4 MB NOR flash
	8 MB SDRAM
PINS/FORM FACTOR	RJ-45 connector style with 20-pin micro pin header (Samtec FTS-110-01-F-DV-TR)
HIGH-SPEED TTL SERIAL INTERFACE	Up to 230 Kbps data rate; full signal support for TXD, RXD, RTS, CTS, DTR, DSR and DCD; hardware/software flow control
GPIO	Up to 10 shared with 1 external IRQ
ON-MODULE POWER SUPERVISOR	Yes
JTAG INTERFACE	NET+OS development modules only
WAVE-SOLDERABLE DESIGN	No clean flux process
DIMENSIONS (L X W X H)	36.7 mm (1.445 in) x 19.05 mm (0.75 in) x 21.69 mm (0.854 in)

NETWORK INTERFACE - WIRED

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
INTEGRATED ETHERNET MAC/PHY	Yes
POE POWER PASS-THROUGH	Yes (see website for available options)

ENVIRONMENTAL

|	
OPERATING TEMPERATURE	-40° C to 85° C (-40° F to 185° F)
STORAGE TEMPERATURE	-50° C to 125° C (-58° F to 257° F)
RELATIVE HUMIDITY	5% to 90% (non-condensing)

POWER REQUIREMENTS (3.3V)

MAXIMUM	270 mA (891 mW)

REGULATORY APPROVALS

FCC PART 15 CLASS B, EN 55022 CLASS B	Yes
EN 61000-3-2 AND EN 61000-3-3	Yes
ICES-003 CLASS B, VCCI CLASS II, AS 3548	Yes
FCC PART 15 SUB C SECTION 15.247	Yes
IC RSS-210 ISSUE 5 SECTION 6.2.2(O)	Yes
EN 300 328, EN 301 489-17	Yes
UL 60950-1, EN 60950 (EU)	Yes
CSA C22.2, NO. 60950	Yes
EN 55024	Yes

PRODUCT DIMENSIONS

Digi Connect ME® - Side

Recommended PCB Layout

RECOMMENDED PCB LAYOUT
TOL. ±.005 [0,127] NON-CUMULATIVE
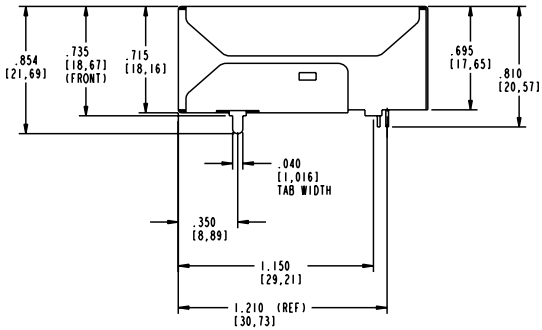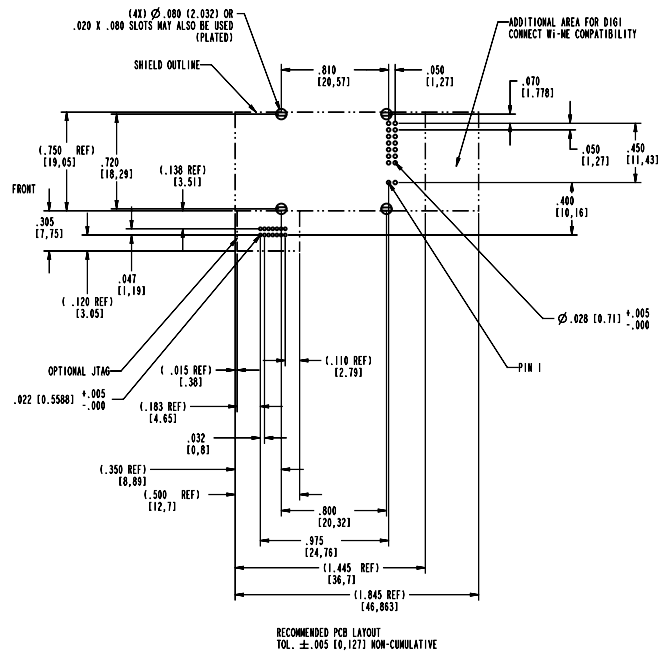
PART NUMBERS	DESCRIPTION
MODULES FOR NET+OS	
DC-ME-01T-C	Digi Connect ME w/2 MB Flash, 8 MB RAM (single-unit pack)
DC-ME-01T-PC	Digi Connect ME w/2 MB Flash, 8 MB RAM, 802.3af compliant power pass-thru (single-unit pack)
DC-ME4-01T-C	Digi Connect ME w/4 MB Flash, 8 MB RAM (single-unit pack)
MODULES WITH PLUG-AND-PLAY FIRMWARE	
DC-ME4-01T-S-UPW	Digi Connect ME w/4 MB Flash, 8 MB RAM, SB-327 compliant

91001258
F7/121

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