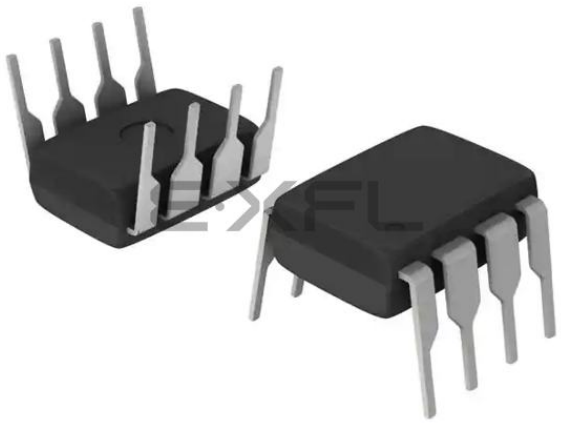

Welcome to E-XFL.COM

What is "Embedded - Microcontrollers"?

"Embedded - Microcontrollers" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "Embedded - Microcontrollers"

Details	
Product Status	Active
Core Processor	PIC
Core Size	8-Bit
Speed	20MHz
Connectivity	-
Peripherals	POR, WDT
Number of I/O	5
Program Memory Size	1.75KB (1K x 14)
Program Memory Type	FLASH
EEPROM Size	128 x 8
RAM Size	64 x 8
Voltage - Supply (Vcc/Vdd)	2V ~ 5.5V
Data Converters	-
Oscillator Type	Internal
Operating Temperature	-40°C ~ 125°C (TA)
Mounting Type	Through Hole
Package / Case	8-DIP (0.300", 7.62mm)
Supplier Device Package	8-PDIP
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/pic12f629-e-p

NimbeLink®
Smart. Simple. Cellular.

E2C Link

Ethernet to Cellular Router

NimbeLink's E2C Link™. Get connected fast with a high-value, low price, rugged, plug-n-play device.

"Compact, Simple, Rugged."

Features

- **Plug-n-play** High-speed connectivity
- **Lightweight** 2.8 oz
- **Compact size** 2.7" x 2.2" x 0.7"
- **Rugged** Aircraft grade Aluminum, Temp resistance -40c - +85

Advantages

- Backup network connectivity for routers and servers - failover
- Flexible and practical
- Modular antenna port
- Flexible mounting options
- Delivers speed and wide coverage (Cellular Technology – 2G, 3G, 4G LTE)
- Flexible powering options – 5v
- Enables remote device connectivity
- Save money, time and improve business efficiency
- Always on
- Low power consumption 7 watts peak, 3G 10 watts peak, 4G 10-15 watts peak
- Built-in Firewall – 2.2
- DHCP server for local automatic IP assignment – can assign static IPs
    - Public and Private IP modes for local IP assignment
    - NAT with VPN Passthru
    - Domain name addressable
- Edge decision making – processing – WRT
- High-Speed Data Connections
- Development version includes 5V PWR supply, Antenna(s) and mounting HW
- Production version includes the E2C Link only. Customer selected Antenna(s), PWR and mounting options

Product Brief

Part Numbers	Description
Recommended for Development	
NL-R-E2GCR	E2C Link, 2G 1xRTT, Verizon
NL-R-E3GDR	E2C Link, 3G EVDO, Verizon
NL-R-E4GLSR	E2C Link, 4G LTE, Verizon
NL-R-EC1G-VR	E2C Link, LTE CAT 1, Verizon
Recommended for Production	
NL-R-E2GC	E2C Link, 2G 1xRTT, Verizon
NL-R-E3GD	E2C Link, 3G EVDO, Verizon
NL-R-E4GLS	E2C Link, 4G LTE, Verizon
NL-R-EC1G-V	E2C Link, LTE CAT 1, Verizon

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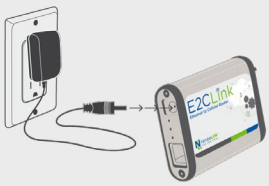
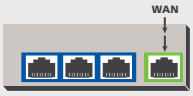
1 Attach antenna.

2 Apply power.



3 Plug in Ethernet cable.

4 Plug Ethernet cable into PC or router WAN port.



Additional Features

- Cost-effective replacement for landline dialup circuits or analog cell-phones – Primary connectivity for PLCs, RTUs, POS, ATM solutions
- Backup/redundant network connections for LANs
- High speed data transfer rate
- Full duplex transceiver ETHERNET PORT
- LED network status indicators
- Remotely manageable and upgradeable
- Optional mounting kit – (included in retail package)

Wireless WAN	
GSM	HSPA+, GPRS, EDGE - 800/850, 900, AWS, 1900, 2100 MHz
	(PTCRB Approval not complete)
CDMA	EV-DO Rev A and 1xRTT - 800/1900 MHz (Both Approved)
LTE	LTE 700 (B17), 850 (B5) AWS1700 (B4) 1900(B2) MHz
	LTE 700 (B13), AWS1700 (B4) MHz
WWAN Embedded Module	Telit 910 Series
SIM Slots	1 internal 3FF Micro-SIM Slot
Antenna Connectors	1 x 50 Ω SMA (Center pin: female)
Ethernet	
Ports	1
Connector	RJ-45
Standard	IEEE 802.3
Physical Layer	10/100 Base-T
Data Rate	10/100 MBit/s
Mode	Full or Half duplex
Interface	Auto MDI/MDIX
Management	
Local Management	Web interface (HTTP/HTTPS); CLI (Telnet, SSH)
Processor and Memory	Atheros AR9331, 64MB RAM, 16MB FLASH
Protocol Support	HTTP, HTTPS, FTP, SSL
Power	
Input	5 VDC (power supply with barrel connector included)
Consumption	Typical: 3.5 W; Max: 15 W
General	
LEDs	Power On, LAN Connection, WWAN Service
Relative Humidity	5% to 95% (non-condensing)
Approvals	
GSM/CDMA	Verizon ODI
Carrier Certifications	Certified by Verizon and most major carriers

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612-285-3433

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